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Fisheries Review is intended to furnish fishery biologists with abstracts of current literature in sport, fishery research, and management.

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Fisheries Review

Vol. 35, No. 4 **1990**

CONTENTS

AQUATIC PLANTS AND THEIR CONTROL..... 1

CULTURE AND PROPAGATION

- General Fish Culture..... 2
- Trout and Salmon Culture..... 3
- Warmwater Culture..... 5
- Mariculture..... 13
- Feeds, Feeding, and Nutrition..... 15
- Transporting Fish..... 21
- Aquariums..... 22
- Miscellaneous Culture Techniques and Equipment..... 23

LIMNOLOGY AND OCEANOGRAPHY

- Physical..... 25
- Chemical..... 26
- Benthos..... 26
- Plankton..... 26
- Primary Production..... 27

MORPHOLOGY, PHYSIOLOGY, GENETICS AND BEHAVIOR

- Morphology..... 27
- Physiology..... 33
- Genetics, Variation Studies, and Hybridization..... 61
- Behavior..... 69

NATURAL HISTORY

- Life History - General Works..... 79
- Population Studies, Production, Recruitment, etc..... 85
- Spawning Habits and Movements, Fecundity, etc..... 89
- Movements, Seasonal and Depth Distribution, etc..... 94
- Foods/Feeding..... 95
- Age and Growth..... 101
- Geographical Distribution, Fish Surveys, etc..... 105
- Abundance, Factors of; Survival and Mortality..... 108
- Identification, Keys, Classification..... 110

PARASITES AND DISEASES

- General..... 113
- Bacterial..... 114
- Fungal..... 118

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Protozoan..... 119
Viral..... 122
Other..... 123

POLLUTION AND TOXICOLOGY

Pollution..... 131
Fish Kills..... 135
Toxicology; Bioassays..... 135

RESEARCH AND MANAGEMENT

General..... 153
Administration and Planning..... 158
Habitat Alterations..... 158
Harvest, Creel Census, etc..... 162
Regulations..... 163
Fish Control and Removal..... 164
Marking and Tagging..... 164
Stocking and Introductions..... 165
Fishing Gear and Techniques..... 168
Fishways, Fish Passage Through Dams, etc..... 171
Mathematics, Statistical Methods, and Modeling..... 172
Lake Management and Research..... 179
River and Stream Management and Research..... 185
Farm Pond and Small Impoundment Management and Research..... 194
Large Impoundment Management and Research..... 195
Estuary Management and Research..... 196
Marine Management and Research..... 198
Utilization of Fishery Products..... 204
Miscellaneous Techniques and Equipment..... 207
Reviews, Bibliographies, etc..... 209
Watershed Management..... 209
Miscellaneous..... 210

AUTHOR INDEX (Blue)..... 211
GEOGRAPHIC INDEX (White)..... 401
SYSTEMATIC INDEX (Blue)..... 441
SUBJECT INDEX (White)..... 733

BOOK REVIEWS

Water Pollution and Fish Physiology, by A. G. Heath..... 440

Rivers at Risk: The Concerned Citizen's Guide to Hydropower, by John D. Echeverria, Pope Barrow, and Richard Roos-Collins..... 731

Alternatives in Regulated River Management, edited by James W. Gore and Geoffery E. Petts..... 910

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FISH KILLS

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Africa: Nile River and Basin
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Arizona: Aravaipa Creek
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Arizona: Lake Powell
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Australia: Botany Bay
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Australia: Clarence River
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Australia: Coral Sea
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Australia: Derwent River
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Australia: Gove Harbor
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Australia: Richmond River
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Australia: South Australia
90-004194
Australia: Swan River
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Australia: Tasmania
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Australia: Thirlmere Lakes
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Australia: Victoria
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Australia: Western Australia
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Australia: Wungong Reservoir
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Austria
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Austria: Fischa-Dagnitz River
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Austria: Lake Constance
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Austria: Lake Seefelder
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Austria: Lake Traunsee
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Austria: Mondsee
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Azores Islands
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Bangladesh
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Barbados
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Barents Sea
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Bay of Bengal
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Beaufort Sea
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Belgium: Lake Virelles
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Belgium: Meuse River
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Belize
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Belize: Twin Cays
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Bering Sea
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Bermuda Islands
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Black Sea and Area
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Bolivia
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Bolivia: Rio Mamore
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Botswana: Lower Okavango Swamp
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Brazil
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Brazil: Americana Reservoir
90-004693
Brazil: Buzios Island
90-001367
Brazil: Itaipu Reservoir
90-005960
Brazil: Lake Calado
90-001127
90-001160
Brazil: Mucajai River
90-005605
Brazil: Parana River
90-000974
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Brazil: Paranoa Reservoir
90-006656
Brazil: Passo Fundo Reservoir
90-006015
Brazil: Rio Cuiaba
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Brazil: Rio Madeira
90-002511
Brazil: Rio Negro
90-004080
Brazil: Rio Pardo
90-002421
Brazil: Rio Solimoes
90-005399
Brazil: Rio Tocantins
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Brazil: Uruguay River
90-006015
California
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California, Western
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California: American River
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California: Bear Creek
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California: Castle Lake
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California: Channel Islands
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California: Davis Creek Reservoir
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California: Eel River
90-005586
California: Feather River
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California: Horseshoe Cove
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California: Humboldt Bay
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California: Kesterson Reservoir
90-000889
90-002608
California: Klamath River
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California: Lake Havasu
90-001339

California: Lake Tahoe
90-001109
90-002836
California: Little Lost Man Creek
90-002853
90-002854
California: Mad River
90-003017
California: McCloud River
90-005444
California: Merced River
90-001014
90-004508
California: Mono Lake
90-006779
California: Monterey Bay
90-006784
California: Navarro River
90-005379
California: Pit River
90-000236
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California: Sacramento River
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California: Sacramento-San Joaquin Estuary
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California: Sagehen Creek
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California: San Clemente Island
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California: San Francisco Bay
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California: San Joaquin River
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California: Santa Catalina Island
90-006701
California: Santa Clara River
90-001824
California: Santa Cruz Island
90-006701
California: Shasta Lake
90-003908
California: Short Hair Creek
90-006592
California: Sierra Nevada
90-006482
California: Southern California Bight
90-003821
California: Stanislaus River
90-004508
California: Trinity River
90-001929
California: Truckee River
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California: Tuolumne River
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Cameroon
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Canada
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Canada, Eastern
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Canada: Adams River
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Canada: Alberta
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Canada: Arctic
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Canada: Babine Lake
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Canada: Batchawana Lake
90-004570
Canada: Bay of Fundy
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Canada: Boundary Reservoir
90-006042
Canada: Bow River
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Canada: Bowland Lake
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Canada: British Columbia
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90-006766
Canada: Bush Creek
90-005490
Canada: Buttle Lake
90-004250
Canada: Carp River
90-002203
90-005713
Canada: Chilko River
90-006478
Canada: Coon Creek
90-005966
Canada: Dauphin Lake
90-005913
Canada: Don River
90-002526
Canada: Drizzle Lake
90-003969
Canada: Duffin Creek
90-006632
Canada: Eastmain River
90-003880
90-003881
Canada: Enos Lake
90-005664
Canada: Fisher Creek
90-005604
Canada: Flathead River
90-001295
Canada: Fraser River
90-002414
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90-006571
Canada: Freshwater River
90-003847
Canada: Gaspereau River
90-006427
Canada: Hecate Strait
90-005104
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Canada: Hudson Bay
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90-000687

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Canada: Hudson Bay
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Canada: Humber River
90-006324
Canada: Icewater Creek
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Canada: Job Lake
90-002039
Canada: Kennedy Lake
90-005533
Canada: Keogh River
90-000572
90-004656
Canada: King Lake
90-002212
Canada: Kloiya Creek
90-004675
Canada: Kootenay Lake
90-003990
Canada: Lake Athabasca
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Canada: Lake Memphremagog
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Canada: Lake Nipigon
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Canada: Lake Opeongo
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Canada: Lake Opinicon
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Canada: Lake St. Clair
90-004293
Canada: Lake St. Jean
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Canada: Lake Winnipeg
90-005471
Canada: Little Shuswap Lake
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Canada: Lochaber Lake
90-005504
Canada: Lower Poole Pond
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Canada: Mackenzie River and Basin
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Canada: Manicouagan River
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Canada: Manitoba
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Canada: Shuswap Lake
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Canada: Skeena River
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Canada: Southern Indian Lake
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Canada: Sproat Lake
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Canada: St. Clair River
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Canada: St. John River
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Canada: St. Lawrence Seaway
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Canada: Stoney Lake
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Canada: Sudbury Lake
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Canada: Taku River
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Canada: Tasialuk Lake
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Canada: Upper Arrow Lake
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Canada: Vancouver Island
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Canada: Walker Creek
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Canada: Watshishou River
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Canary Islands
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Caribbean Area
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Caspian Sea and Area
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Chile: Cotacotani Lake
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Chile: Lake Aculeo
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Chile: Lauca River
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China
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China: Er Hai Lake
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China: Guangdong Province
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China: Heilongjiang River
90-003678
China: Hubei Province
90-006655
China: Hun River
90-004407
China: Jiangsu Province
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China: Lake Donghu
90-006655
China: Liaoning Province
90-004407
China: Qilu Lake
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China: Xi Chiang River and Basin
90-006655
China: Yunnan Province
90-001110
90-005173
China: Zhejiang Province
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90-000054
China: Zhujiang River
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Chukchi Sea
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Colombia
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Colombia: Bahia Portete
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Colombia: Cienaga Grande de Santa Marta
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Colombia: Guajaro Reservoir
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Colorado
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Colorado: Alkali Creek
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Colorado: Clear Creek
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Colorado: Deer Creek
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Colorado: Green River
90-004681
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Colorado: Peru Creek
90-006070
Colorado: Poudre River
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Colorado: Rocky Mountain Natl. Park
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Colorado: South Platte River
90-001264
90-006619
Colorado: St. Vrain River
90-000897

Colorado: Trout Creek
90-004668
Colorado: Yampa River
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Comoros
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Connecticut
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Costa Rica
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Costa Rica: Arenal Reservoir
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Costa Rica: Gulf of Nicoya
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Costa Rica: Rio Claro
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Cuba
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Cuba: Alacranes Reservoir
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Cuba: Zaza Reservoir
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Czechoslovakia
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Czechoslovakia: Jihlava River
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Czechoslovakia: Klicava Reservoir
90-003993
Czechoslovakia: Morava River
90-005847
Czechoslovakia: Slapy Reservoir
90-004203
Czechoslovakia: Zaskalska Reservoir
90-006657
Delaware: Delaware Bay
90-003893
Denmark
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Denmark: Gudenaa River
90-001255
Denmark: Hjarbaek Fjord
90-006537
Denmark: Lake Frederiksborg Slotsso
90-001145

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Denmark: Lake Frederiksborg Slotsso
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Denmark: Lake Sobygard
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Denmark: Lake Vaeng
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East China Sea and Area
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East Germany
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East Germany: Lake Grosse Fuchskuhle
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Easter Island
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Ecuador
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Egypt
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Egypt: Lake Karun
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Egypt: Lake Nasser
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Egypt: Mex Bay
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Egypt: Suez Canal
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England
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England
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England: Alderfen Broad
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England: Culm River
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England: Great Ouse River
90-006567
England: Humber River
90-004704
England: Lancaster Canal
90-003782
England: Main Lake
90-002175
England: Mersey River
90-001260
England: Red Tarn
90-005663
England: River Almond
90-002298
England: River Avon
90-004497
England: River Brett
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England: River Chelmer
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England: River Ecclesbourne
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England: River Frome
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England: River Tees
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England: Rostherne Mere
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England: Severn River
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England: St. Peters Lake
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England: Tees River
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England: Thames River
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England: Tyne River
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England: Wear River
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England: Winterbourne Stream
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England: Yealm Estuary
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Europe, Central
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Europe: Alps Region
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Europe: Danube River and Basin
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Europe: Iberian Peninsula
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Europe: Lake Leman
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Europe: Pyrenees Region
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Europe: Rhine River and Basin
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Finland
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Finland: Kyronjoki River
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Finland: Lake Hakojarvi
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Finland: Lake Inari
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Finland: Lake Kernaala
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Finland: Lake Kiantajarvi
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Finland: Lake Kiimasjarvi
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Finland: Lake Lakeenjarvi
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Finland: Lake Nuasjarvi
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Finland: Lake Pyhajarvi
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Finland: Lake Yli-Kitka
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Finland: Lokka Reservoir
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Finland: Porttipahta Reservoir
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Finland: Simojoki River
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Finland: Vantaanjoki River
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Florida
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Florida, Northwestern
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Florida, Southeastern
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Florida: Apalachicola River
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Florida: Charlotte Harbor
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Florida: Everglades Natl. Park
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Florida: Florida Bay
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Florida: Hillsborough Bay
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Florida: Indian River Lagoon
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Florida: Keys
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Florida: Lake Conway
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Florida: Lake George
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Florida: Lake Okeechobee
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Florida: Orange Lake
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Florida: Peace River
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Florida: Shark River
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Florida: St. Johns River
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Florida: Tampa Bay
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Florida: Turkey Creek
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France
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France: Bay of Biscay
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France: Isere River
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France: Lake Annecy
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France: Lake Petichet
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France: Lake Sainte-Croix
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France: Loire River
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France: Mauguio Lagoon
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France: Nivelle River
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France: Rhone River
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France: River Lot
90-001235
France: River Scorff
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France: Scorff River
90-005651
France: Selune River
90-003729
France: Tet River
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French Guiana
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Georges Bank
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Georgia: Flint River
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Georgia: Lake Seminole
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Georgia: Ogeechee River
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Georgia: Powder Springs Creek
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Georgia: Savannah River
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Georgia: South End Ponds
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Grand Banks
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Great Britain
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Greece
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Greece: Aegean Sea
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Greece: Lake Kerkini
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Greece: Lake Mikri Prespa
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Greece: Vistonis Lake
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Greenland
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Gulf of Mexico
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Hawaii
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Hawaii: Kaneohe Bay
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Heard and McDonald Islands
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Hispaniola
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Honduras
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Honduras: Laguna de Brus
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Hong Kong
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Hong Kong: Tolo Harbor
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Hungary
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Hungary: Lake Balaton
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Iceland: Lake Thingvallavatn
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Idaho
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Idaho: Bear Lake
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Idaho: Big Wood River
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Idaho: Boise River
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Idaho: Clearwater River
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Idaho: Henry's Fork
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Idaho: Mink Creek
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Idaho: Rock Creek
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Idaho: Salmon River
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Idaho: Snake River
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Idaho: South Fork Salmon River
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Illinois
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Illinois: Vermilion River
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Illinois: Wabash River
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India
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India: Brahmaputra River
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India: Chilka Lagoon
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India: Chilka Lake
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India: Dal Lake
90-004887
India: Didwana Lake
90-001105
India: Hooghly Estuary
90-001003
India: Ramgarh Lake
90-006172
India: Vellar Estuary
90-005556
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Indian Ocean
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Indiana
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Indiana: Sugar Creek
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Indonesia
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Indonesia: Solo River
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Iowa
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...CONTINUED...
Iowa
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Iowa: Big Creek
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Iowa: Cedar River
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Iran: Lake Hamun
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Iraq
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Iraq: Al-Hammar Marsh
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Iraq: Khor Al-Zubair
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Iraq: Shatt al-Arab River
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Ireland
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Ireland: Caragh River
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Ireland: Erriff River
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Ireland: Lough Aderry
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Ireland: River Dodder
90-002255
Ireland: Shannon River
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Ireland: Suir River
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Irish Sea
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Israel: Haifa Bay
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Israel: Lake Kinneret
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Italy: Lake Orta
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Italy: Lake Scuro Parmense
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Italy: Ligurian Sea
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Italy: Tyrrhenian Sea
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Japan: Lake Biwa
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Japan: Lake Kizaki
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Japan: Lake Mashu
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Japan: Lake Suwa
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Japan: Mena River
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Japan: Nakasuji River
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Japan: News Bay
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Japan: Nomura Reservoir
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Japan: Omo-dani River
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Japan: Sendai Bay
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Japan: Seto Inland Sea
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Japan: Shijiki Bay
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Japan: Shiribetsu River
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Japan: Tateishi River
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Japan: Tsubusa River
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Japan: Tsushima Island
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Johnston Atoll
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Jordan: Gulf of Aqaba
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Kansas: Chikaskia River
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Kansas: Marion Reservoir
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Kansas: Ninnescah River
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Kentucky, Central
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Louisiana: False River
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Louisiana: Little Pecan Lake
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Louisiana: Pearl River
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Maine: Lake St. George
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Maine: Long Pond
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Malaysia: Chenderoh Reservoir
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Malaysia: Tengi River
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Maldives
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Marshall Islands
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Massachusetts: Boston Harbor
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Massachusetts: Connecticut River
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Massachusetts: Walden Pond
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Mediterranean Region
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Mexico: Aguascalientes
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Mexico: Baja California Norte
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Mexico: Chihuahua
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Mexico: Colima
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Mexico: Cuyutlan Lagoon
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Mexico: Gulf of California
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90-005997
Mexico: Jalisco
90-004031
Mexico: Laguna de Agua Brava
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Mexico: Nayarit
90-006666
Mexico: Rio Carrizal
90-004709
Mexico: Rio Choy
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90-005717
Mexico: Rio Coy
90-000485
Mexico: Rio de la Concepcion
90-006785
Mexico: Rio Parral
90-002113
Mexico: Rio Reyon
90-005647
Mexico: San Luis Potosi
90-000485
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Mexico: Sonora
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Mexico: Tamaulipas
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Mexico: Veracruz
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Mexico: Yucatan
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Michigan
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Michigan, Northern
90-002569
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Michigan: Au Sable River
90-006356
Michigan: Canada Creek
90-006334
Michigan: Detroit River
90-004364
Michigan: Douglas Lake
90-002444
Michigan: Fox River
90-002141
Michigan: Green Bay
90-002477
90-002779
Michigan: Lawrence Lake
90-001167
Michigan: Ocqueoc River
90-002715
Michigan: Paul Lake
90-003195
Michigan: Peter Lake
90-003195
Michigan: Saline River
90-001246
Michigan: Tittabawassee River
90-006569
Michigan: Tuesday Lake
90-002159
90-003195
Michigan: Wintergreen Lake
90-001134
Micronesia
90-006708
Minnesota
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Minnesota, Northeastern
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Minnesota, Northern
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Minnesota, Southeastern
90-001299
Minnesota: Blackhoof River
90-006629
Minnesota: Caribou River
90-006629
Minnesota: Crystal Lake
90-004631
Minnesota: Kabetogama Lake
90-006520
Minnesota: Lake Christina
90-006516
Minnesota: Lake Itasca
90-000639
90-002856
Minnesota: Lake Winona
90-001129
Minnesota: Otter Tail River
90-000549
90-000652
Minnesota: Ten Mile Lake
90-003258
Minnesota: Trout Lake
90-004253
Minnesota: Voyageurs Natl. Park
90-006520
Mississippi
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Mississippi, Northeastern
90-004082
Mississippi: Hickory Creek
90-003874
Mississippi: Luxapalila River
90-005539
Mississippi: Old Fort Bayou
90-003803
Mississippi: Pearl River
90-005563
90-006579
Mississippi: Ross Barnett Reservoir
90-005563
Mississippi: Tombigbee River
90-005539
Mississippi: Yazoo River
90-003714
Missouri
90-002161
90-002844
90-004684
90-006375
90-006522
Missouri: Big Buffalo Creek
90-004669
Missouri: Current River
90-006609
Missouri: Hinkson Creek
90-002220
Missouri: Jacks Fork River
90-006609
Missouri: Lake of the Ozarks
90-001148
Missouri: Little Saline Creek
90-002280
Missouri: Osage River
90-005161
Missouri: Perche Creek
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Missouri: Truman Lake
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Monaco
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Mongolia
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Montana
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Montana, Western
90-005969

Montana: Cedar Creek
90-006426
Montana: Flathead Lake
90-001125
Montana: Flathead River
90-001295
90-006588
Montana: Klinta Lake
90-001125
Montana: Powder River
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Morocco
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Mozambique
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Namibia
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Nebraska: Long Pine Creek
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Nebraska: Platte River
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Nepal
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Netherlands
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Netherlands: Lake Bleiswijkse Zoom
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Netherlands: Lake Breukeleveen
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Netherlands: Lake Gjersjoen
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Netherlands: Lake Tjeukemeer
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Netherlands: Lake Veluwe
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Netherlands: Lake Zwemlust
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Netherlands: Meuse River
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Nevada
90-001275
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Nevada: Ash Springs
90-002707
Nevada: Brownie Spring
90-002707
Nevada: Chimney Hot Springs
90-004876
Nevada: Lake Mead
90-002891
Nevada: Truckee River
90-004653
New Caledonia
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New Hampshire
90-001254
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New Hampshire: Cone Pond
90-001637
New Hampshire: East Inlet Pond
90-005454
New Hampshire: Hubbard Brook
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New Hampshire: Mirror Lake
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New Jersey
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New Jersey, Southern
90-000511
New Jersey: Pancocas Creek
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New Mexico
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New Mexico: Bitter Lake Natl. Wildlife Refuge
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New Mexico: Mirror Lakes
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New Mexico: Pecos River
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New York
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New York: Adirondack Lakes
90-002535
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New York: Adirondack Mountains
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New York: Buffalo River
90-004364
New York: Catskill Creek
90-000509
New York: Darts Lake
90-006218
New York: Hudson River
90-000539
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90-003705

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New York: Hudson River
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New York: Jamaica Bay
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New York: Keuka Lake
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New York: Lake Champlain
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New York: Lake Oneida
90-003930
New York: Lake Rondaxe
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New York: Long Island Sound
90-003295
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New York: Moss Lake
90-006218
New York: Onondaga Lake
90-005112
New York: Rich Lake
90-004249
New York: Seneca Lake
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New York: Shawangunk Kill
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New Zealand
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New Zealand: Hamilton Lake
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New Zealand: Lake Mahinerangi
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New Zealand: Lake Okaro
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New Zealand: Lake Rotongaio
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New Zealand: Lake Rotorua
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90-001206
New Zealand: Lyttelton Harbour
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New Zealand: Manawatu River
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New Zealand: Okarito River
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New Zealand: Rakaia River
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New Zealand: Tongarro River
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Nicaragua
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Nicaragua: Lake Managua
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Nigeria
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Nigeria: Jebba Lake
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Nigeria: Lagos Lagoon
90-001006
Nigeria: Lake Kainji
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Nigeria: Lake Tatabu
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Nigeria: Owa River
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Nigeria: Tiga Lake
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North America
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North America: Colorado River and Basin
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North America: Columbia River and Basin
90-000985
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North America: Great Plains
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North America: Rocky Mountain Region
90-003677
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North America: Yukon River and Basin
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North Carolina
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North Carolina: Cape Fear River
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North Carolina: Coweeta Creek
90-000502
North Carolina: Dan River
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North Carolina: Lake Wylie
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North Carolina: Pamlico River
90-004140
North Carolina: Pamlico Sound
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90-002370
North Carolina: Tar River
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North Sea
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Northern Ireland
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Norway: Alta River
90-005747
Norway: Buskleinbekken Stream
90-003946
Norway: Essand Reservoir
90-000547
Norway: Gjengedalselva River
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Norway: Glama River
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Norway: Imsa River
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Norway: Krassheimsana River
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Norway: Laerdalselva River
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Norway: Lake Gjersjoen
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Norway: Lake Haugatjern
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Norway: Lake Helgetjern
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Norway: Lake Jonsvatn
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Norway: Lake Mosvatn
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Norway: Lake Stugusjoen
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Norway: Lake Vekteren
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Norway: Nea River
90-000972
Norway: Nesjo Reservoir
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Norway: Sandvikselva River
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Norway: Sjoa River
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Norway: Surna River
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Norway: Tverrelva River
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Norway: Vardnes River
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Oceanica
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Ohio
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Ohio: Black River
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Ohio: Indian Creek
90-002561
Ohio: Kokosing Lake
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Ohio: Little Miami River
90-006334
90-006337
Ohio: Old Woman Creek
90-002499
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Oklahoma
90-006396
90-006522
Oklahoma: Arbuckle Lake
90-006360
Oklahoma: Blue River
90-002308
Oklahoma: Cimarron River
90-002171
Oklahoma: Glover Creek
90-002148
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Oklahoma: Keystone Reservoir
90-004310
Oklahoma: Lake Broken Bow
90-006535
Oklahoma: Lake Texoma
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Oklahoma: Lake Watonga
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Oklahoma: Thunderbird Reservoir
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Oregon, Northeastern
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Oregon, Western
90-004670

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Oregon, Western
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Oregon: Camp Creek
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Oregon: Coos Bay
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Oregon: Deschutes River
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Oregon: John Day Reservoir
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Oregon: Mill Creek
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Oregon: Netarts Bay
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Oregon: Steamboat Creek
90-003807
Oregon: White River
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Pacific Ocean
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Pacific Ocean, North
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Pacific Ocean, North
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Pacific Ocean, North: Philippine Sea
90-004062
Pacific Ocean, Northwestern
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Pacific Ocean, South
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Pacific Ocean, South: Galapagos Rise
90-002142
Pacific Ocean, South: Nazca Ridge
90-000179

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Pacific Ocean, South: Nazca Ridge
90-002235
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90-004014
Pacific Ocean, South: Sala y Gomez Ridge
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Pacific Ocean, Southeastern
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Pacific Ocean, Southwestern
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Pakistan
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Panama
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Panama: Rio Frijoles
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Papua New Guinea
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Papua New Guinea: Fly River
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Papua New Guinea: Sepik River
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Paraguay
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Paraguay: Parana River
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Pennsylvania
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Pennsylvania: Monongahela River
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Pennsylvania: Sandy Creek
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Pennsylvania: Shenango Creek
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Pennsylvania: Susquehanna River
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Persian Gulf
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Peru: Rio Manu
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Philippines
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Philippines: Lake Laguna
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Poland
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Poland: Baczycha River
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Poland: Barycz River
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Poland: Bobrowka River
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Poland: Dobrzyca River
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Poland: Dunajec River
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Poland: Jeziorak Lake
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Poland: Konin Lakes
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Poland: Lake Dgal Wielki
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Poland: Lake Leginskie
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Poland: Lake Piaseczno
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Poland: Lake Ros
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Poland: Lake Warniak
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Poland: Odra River
90-003724
Poland: Paproteckie Lake
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90-006527
Poland: Puck Bay
90-006312
Poland: Rega River
90-005351

Poland: Roba River
90-004655
Poland: Rudki Stream
90-004660
Poland: Sulejow Reservoir
90-006659
Poland: Vistula River
90-000656
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90-004100
Poland: Wroclawek Dam Reservoir
90-004100
Portugal
90-000931
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Portugal: Este River
90-004145
Portugal: Lagoon of Aveiro
90-000565
Portugal: Ria de Aveiro
90-000679
Puerto Rico
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Qatar
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Red Sea and Area
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Rhode Island
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Rhode Island: Narragansett Bay
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Romania
90-000929
Romania: Mostiste Reservoir
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Romania: Vestonice Reservoir
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Rwanda: Lake Luhondo
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Sargasso Sea
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Saudi Arabia
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Scandinavia
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South Africa: Mkuze Swamp
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Spain: Rio Matarrana
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Sweden: Lake Oxsjon
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Sweden: Lake Rosjon
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Sweden: Lake Visjon
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Sweden: Laktabacken Creek
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Sweden: Lilla Oresjon
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Sweden: Ronnea River
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Switzerland: Lake Walenstadt
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USSR: Amur River
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USSR: Lake Sevan
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USSR: Yana River
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Utah: Flaming Gorge Reservoir
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Utah: Green River
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Utah: Lake Powell
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Utah: Logan River
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Utah: Sheep Creek
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Utah: Utah Lake
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Utah: Yampa River
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Venezuela: Oronoco River
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Venezuela: Rio Orinoco
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Virginia: Hazel River
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Virginia: James River
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Virginia: Lafayette River
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Virginia: Mattaponi River
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Washington: Long Lake
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Washington: Mount St. Helens
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Washington: Nisqually River
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Washington: Snow Creek
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Washington: Willapa Bay
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West Germany: Lake Kochel
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West Germany: Lake Schlachtensee
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West Germany: Lake Schohsee
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West Germany: Langsee
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West Germany: Neckar River
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West Indies
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West Virginia: Cheat Lake
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West Virginia: New River
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Yugoslavia: Unica River
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Zambia: Lake Kariba
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Zimbabwe: Lake Kariba
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Zimbabwe: Lake Ngezi
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BOOK REVIEW

Heath, A. G. 1987. *Water Pollution and Fish Physiology.* CRC Press, Inc., 2000 Corporate Blvd., Boca Raton, FL 33431. ix + 245 pp. Available from the publisher at $169.00 (cloth).

Dr. Heath has prepared a reasonably concise synthesis of the literature through early 1985 on the physiological action of water pollutants in fish. This book is the result of Dr. Heath's effort to keep abreast of primary research in this field in order to teach a postgraduate course to biology students for the past 11 years on this subject at the Virginia Polytechnic Institute and State University—a school well-known for its leadership in the study of aquatic toxicology.

The review begins with a discussion of some basic concepts that are important in understanding how pollution affects the physiology of aquatic animals. The types of water pollution that are used in the book to illustrate physiological effects on fish include putrecible organic materials, excessive nutrition, suspended solids, toxic chemicals (metals chlorine, cyanides, ammonia, detergents, pesticides, PCBs, petroleum hydrocarbons, acids, alkalies, and pulpmill effluents), and thermal pollution; the types not covered include pathogenic microbes and carcinogenic chemicals.

Following this brief chapter, Heath gives an analysis of the physiological responses of fish to environmental hypoxia, which is a condition often found in polluted waters, induced in fish by many toxic chemicals, and the focus of much of Dr. Heath's research, in collaboration with his graduate students. Each of the subsequent chapters is generally devoted to a specific physiological process and include respiratory and cardiovascular responses, hematology, liver function, osmotic and ionic regulation, physiological hematology, liver function, osmotic and ionic regulation, physiological energetics, cellular enzyme activity and adenylates, behavior and nervous system function, reproduction and growth, and uptake, accumulation, biotransformation, and excretion of xenobiotics.

For each of these chapters, a review of some basic physiology of fish is followed by a detailed discussion of how various pollutants affect these functions with an emphasis on sublethal effects. The author does a good job of comparing and contrasting pollutant effects on freshwater and marine biochemical measurements that are, or could be, used in work on water pollution control.

This book is recommended to anyone who needs a broad perspective on the physiological action of water pollutants on fish. It contains extensive literature citations in each chapter to aid those who wish to pursue a topic in further depth. —Steven J. Hamilton, U.S. Fish and Wildlife Service, National Fisheries Contaminant Research Center, Field Research Station, RR 1 Box 295, Yankton, SD 57078.

Abramis ballerus
Age/Growth
90-001712
Dactylogyrus chranilowi
90-006051
Electrophoresis
90-000428
Genetics
90-003675
Hematology
90-000428
Karyotypes
90-000428
Modeling
90-003675
Parasites/Diseases
90-006051
Population Genetics
90-003675
Scales
90-001712
Species Identification
90-000428
Trematodes
90-006051
Variation Studies
90-000428
90-003675
Abramis brama
Abnormalities
90-001694
Abundance/Factors of
90-002883
Acidification
90-004712
Age/Growth
90-001114
90-003959
90-003995
Ammonium
90-002465
Anguillicola crassus
90-004202
Aquariums
90-003767
Behavior
90-003767
Biological Monitoring
90-002465
Boat Turbidity
90-006329
Canals
90-006329
Chlorinated Hydrocarbons
90-006273
Commercial Fishing
90-004680
Culture/Propagation
90-001457
90-003767
Dibenzofuran
90-006273
Digestive System
90-000305
90-001694
90-003952
Dioxin
90-006273
Distribution/Vertical
90-000611
Early Development
90-001694

...CONTINUED...
Abramis brama
Egg Collection
90-001457
Egg Quality
90-001457
Electrophoresis
90-000428
Enzymes
90-000305
Eutrophication
90-006068
Exotic Species/Italy
90-004500
Fish Control/Removal
90-005116
90-006523
90-006530
90-006539
90-006544
90-006545
90-006549
Flow Regimes
90-006567
Foods/Feeding
90-001114
90-001681
90-002268
90-003952
90-003959
Gill Rakers
90-001681
Gravel Pits
90-006549
Habitat Selection
90-004619
Hematology
90-000428
Hybridization
90-000951
Karyotypes
90-000428
Management/Research--Lakes
90-001114
90-003199
90-004618
90-004619
90-005116
90-005117
90-006068
90-006523
90-006539
90-006544
90-006545
90-006549
Management/Research--Ponds
90-002882
Management/Research--Reservoirs
90-002883
90-002890
Management/Research--Rivers and Streams
90-002465
90-006329
Nematodes
90-004202
Nitrate
90-002465
Nitrite
90-002465
Otoliths
90-003995

...CONTINUED...
Abramis brama
Parasites/Diseases
90-004100
90-004202
90-005993
Parasitic Copepods
90-005993
Pesticides
90-006273
Phosphorus
90-003199
Plankton
90-005117
Playas
90-004618
Pollution
90-002465
Population Studies
90-000951
90-004619
90-006549
Primary Production
90-002883
Production
90-002883
Rearing Density
90-003767
Recruitment
90-004712
90-006567
Season
90-000305
90-003767
Ship Canals
90-006329
Species Identification
90-000428
Stocking/Introductions
90-004500
90-005117
90-006519
Swimming Performance
90-003764
Techniques/X-rays
90-001681
Tracheliastes maculatus
90-005993
Trophic Relationships
90-002882
90-002890
90-003959
90-004618
90-005116
90-005117
90-006068
90-006519
90-006523
90-006530
90-006539
90-006544
90-006545
90-006549
Turbidity
90-002882
Variation Studies
90-000428
Water Quality
90-005117
90-006068
Wetlands
90-000951
Abramis sapa
Electrophoresis
90-000428
Genetics
90-003675
Hematology
90-000428
Karyotypes
90-000428
Modeling
90-003675
Population Genetics
90-003675
Species Identification
90-000428
Variation Studies
90-000428
90-003675
Abudefduf saxatilis
Aquariums
90-003147
Culture/Propagation
90-003147
Cytochrome P450
90-003563
Endocrinology
90-003563
Life History/General
90-003147
Acantharchus
Morphology
90-000707
Osteology
90-000707
Taxonomy
90-000707
Acanthemblemaria greenfieldi
Habitat Selection
90-000497
Interspecies Relationships
90-000497
Acanthemblemaria paula
Life History/General
90-000714
Morphology
90-000714
New Species
90-000714
Acanthemblemaria spinosa
Habitat Selection
90-000497
Interspecies Relationships
90-000497
Acanthistius brasilianus
Foods/Feeding
90-003746
Management/Research--Marine
90-003746
Niche Overlaps
90-003746
Trophic Relationships
90-003746
Acanthobrama marmid
Parasites/Diseases
90-002369
Acanthochaenus lutkenii
Early Development
90-003227
Meristic Studies
90-003227
Morphometry
90-003227

Acanthochromis polyacanthus
Aquariums
90-002129
Culture/Propagation
90-002129
Parental Behavior
90-002129
Acanthopagrus schlegelii
Histology
90-001683
Pigments
90-001683
Vision
90-001683
Acanthuridae
Lateral Line Erosion
90-002435
Morphology
90-000207
Parasites/Diseases
90-002435
Taxonomy
90-000207
Acanthurus bahianus
Fatty Acids
90-000354
Foods/Feeding
90-002245
Osteology
90-000354
Pressure Effects
90-000354
Reef Fish Communities
90-002245
Acanthurus chirurgus
Foods/Feeding
90-002245
Reef Fish Communities
90-002245
Acanthurus coeruleus
Foods/Feeding
90-002245
Reef Fish Communities
90-002245
Acanthurus nigrofuscus
Foods/Feeding
90-000642
Acanthurus triostegus
Aquariums
90-003166
Culture/Propagation
90-003166
Life History/General
90-003166
Acanthurus xanthopterus
Parasites/Diseases
90-005956
Protozoan Diseases
90-005956
Trichodina luba
90-005956
Acarichthys geayi
Aquariums
90-003164
Culture/Propagation
90-003164
Taxonomy
90-003164
Acaronia nassa
Enzymes
90-001899

...CONTINUED...
Acaronia nassa
Isozymes
90-001899
Lactate Dehydrogenase
90-001899
Techniques/Chromatography
90-001899
Acentrogobius bontii
Osteology
90-005146
Taxonomy
90-005146
Acentrogobius ornatus
Osteology
90-005146
Taxonomy
90-005146
Acerina cernua
Lateral Line System
90-003597
Nervous System
90-003597
Parasites/Diseases
90-000765
Protozoan Diseases
90-000765
Sonic Stimuli
90-003597
Trypanosoma acerinae
90-000765
Achirus mazatlanus
Distribution/Geographical
90-002313
Management/Research--Estuaries
90-006666
Population Studies
90-006666
Achoerodus gouldii
Commercial Fishing
90-001392
Acipenser
Branchial Basket
90-001670
Acipenser baeri
Culture/Propagation
90-000145
90-004983
Endocrinology
90-000427
Exercise
90-001880
Feeds
90-000145
Hybridization
90-004983
Induced Maturation
90-000145
Latitude
90-003256
Medication In Diets
90-000145
Meristic Studies
90-003256
Metabolic Rates
90-001880
Pituitary Gland
90-000427
Reproductive System
90-000427
Site Suitability
90-004983

...CONTINUED...
Acipenser baeri
Steroids
90-000145
Variation Studies
90-003256
X-rays
90-000427
Acipenser brevirostrum
Culture/Propagation
90-006388
Harvest
90-003812
Life History/General
90-003812
Supplemental Stocking
90-006388
Acipenser fulvescens
Bioenergetics
90-003553
Culture/Propagation
90-006388
Distribution/Geographical
90-005832
Fatty Acids
90-003553
Interspecies Relationships
90-006540
Lipid Metabolism
90-003553
Management/Research--Lakes
90-006540
90-006548
Supplemental Stocking
90-006388
Thermal Pollution
90-006548
Acipenser gueldenstaedti
Age/Length Composition
90-002164
Condition Factors
90-005277
Culture/Propagation
90-001759
Early Development
90-003414
Embryology
90-005277
Fatty Acids
90-003414
Histology
90-003216
Hormones
90-001759
Induced Maturation
90-001759
Lipid Content
90-005277
Management/Research--Lakes
90-002164
Migration
90-003888
Muscle Necrosis
90-003216
Musculature
90-003216
Parasites/Diseases
90-003216
Population Studies
90-002164
Regulations/General
90-002164

...CONTINUED...
Acipenser gueldenstaedti
Spawning
90-003888
Acipenser medirostris
Culture/Propagation
90-006388
Supplemental Stocking
90-006388
Acipenser nudiventris
Age/Length Composition
90-002164
Management/Research--Lakes
90-002164
Population Studies
90-002164
Regulations/General
90-002164
Acipenser oxyrhynchus
Culture/Propagation
90-006388
Supplemental Stocking
90-006388
Acipenser oxyrhynchus oxyrhynchus
Harvest
90-003812
Life History/General
90-003812
Acipenser ruthenus
Commercial Fishing
90-004680
Culture/Propagation
90-004983
Early Development
90-003384
Endocrinology
90-000427
Hybridization
90-000427
90-000429
90-004983
Karyotypes
90-000429
Lipid Metabolism
90-003384
Pituitary Gland
90-000427
Reproductive System
90-000427
Site Suitability
90-004983
X-rays
90-000427
Acipenser stellatus
Age/Length Composition
90-002164
Allozymes
90-005484
Early Development
90-003384
Electrophoresis
90-005484
Lactate Dehydrogenase
90-005472
Lipid Metabolism
90-003384
Management/Research--Lakes
90-002164
Population Studies
90-002164
Regulations/General
90-002164

...CONTINUED...
Acipenser stellatus
Variation Studies
90-005484
Acipenser sturio
Parasites/Diseases
90-003846
Parasitic Molluscs
90-003846
Population Studies
90-003846
Acipenser transmontanus
Bacterial Diseases
90-005916
Carbohydrate Metabolism
90-003113
Cloning
90-005433
Culture/Propagation
90-003113
90-003325
90-006388
Cytology
90-003420
Diets
90-003113
Digestive System
90-003113
DNA
90-000444
90-005433
Early Development
90-001775
Edwardsiella ictaluri
90-005916
Embryology
90-001775
Endocrinology
90-003420
Enzymes
90-000444
Exotic Species/Italy
90-004500
Hatchery/Wild Populations
90-003325
Histology
90-003113
Hybrid Identification
90-000444
Hybridization
90-000444
Liver
90-003113
Maturation
90-003325
Nutrition
90-003113
Parasites/Diseases
90-005916
Pituitary Gland
90-003420
Reproductive Cycle
90-003325
RNA
90-005433
Sex Determination
90-000444
Stocking/Introductions
90-004500
Supplemental Stocking
90-006388
Vitellogenin
90-005433
Acromycter nezumi
Distribution/Geographical
90-000698
Acrossocheilus hexagonolepis
Age/Growth
90-005128
Morphometry
90-005128
Actinopterygii
Head
90-000171
Osteology
90-000171
Taxonomy
90-000171
Aeoliscus strigatus
Culture/Propagation
90-003150
Aequidens
Evolution
90-003838
Life History/General
90-003838
Predator/Prey Relationships
90-003838
Variation Studies
90-003838
Zoogeography
90-003838
Aequidens pulcher
Pigments
90-000220
Variation Studies
90-000220
Vision
90-000220
Ageneiosidae
Reproductive System
90-001705
Agosia chrysogaster
Lipid Composition
90-000240
Temperature
90-000240
Albula
Early Development
90-003695
Electrophoresis
90-003695
Enzymes
90-003695
Isozymes
90-003695
Proteins
90-003695
Alburnoides bipunctatus
Distribution/Geographical
90-006589
Habitat Selection
90-006589
Management/Research--Rivers and Streams
90-006589
Alburnus alburnus
Age/Growth
90-003959
Backwater Lakes
90-005526
Bacterial Flora
90-003008
Bioenergetics
90-003427

...CONTINUED...
Alburnus alburnus
Early Development
90-003427
Flow Regimes
90-006567
Foods/Feeding
90-002268
90-003427
90-003959
90-005526
Interspecies Relationships
90-005526
Management/Research--Reservoirs
90-006649
Management/Research--Rivers and Streams
90-005526
Metabolic Rates
90-003427
Oxytetracycline
90-003008
Recruitment
90-006567
Schooling Behavior
90-005526
Trophic Relationships
90-003959
90-006649
Aldrichetta forsteri
Benthos
90-001640
Cytology
90-001644
Digestive System
90-001644
Nervous System
90-001644
Alectis ciliaris
Ciguatera
90-000921
Ichthyotoxin
90-000921
Alepes djedaba
Catch Per Unit Effort
90-004787
Distribution/Seasonal
90-004787
Alepisaurus ferox
Foods/Feeding
90-000645
Molluscs
90-000645
Predator/Prey Relationships
90-000645
Alepocephalus rostratus
Foods/Feeding
90-003927
Alestes nurse
Annulotrema
90-006005
Fish as Food
90-001420
Foods/Feeding
90-000626
Parasites/Diseases
90-006005
Trematodes
90-006005
Allothunnus fallai
Bacterial Diseases
90-004116

...CONTINUED...
Allothunnus fallai
Goussia auxidis
90-004116
Parasites/Diseases
90-004116
Alopias superciliosus
Cardiovascular System
90-003213
Heart
90-003213
Alopias vulpinus
Cardiovascular System
90-003213
Distribution/Geographical
90-000601
Early Development
90-000601
Heart
90-003213
Management/Research--Marine
90-000601
Nursery Areas
90-000601
Reproduction
90-000601
Alosa aestivalis
Abundance/Factors of
90-005682
90-005864
Age/Growth
90-005610
Cannibalism
90-000504
Commercial Fishing
90-000532
Dams
90-004543
90-005864
90-006428
Egg Predation
90-000504
Escapement
90-005864
90-006428
Fishways
90-004543
90-006428
Flow Regimes
90-005682
Foods/Feeding
90-000504
Habitat Alterations
90-005682
Impoundment
90-005864
90-006428
Landlocked Populations
90-005610
Life History/General
90-000532
Management/Research--Reservoirs
90-005610
Management/Research--Rivers and Streams
90-005682
90-005864
90-006428
Population Studies
90-005712
Recruitment
90-005712

...CONTINUED...
Alosa aestivalis
Recruitment
90-005864
90-006428
Reproduction
90-005610
Restoration of Anadromous Runs
90-004543
Year Class Strength
90-005864
Alosa alabamae
Distribution/Geographical
90-005832
Alosa alosa
Management/Research--Rivers and Streams
90-005692
Nursery Areas
90-005692
Reproduction
90-005692
Spawning
90-005692
Alosa fallax
Abundance/Factors of
90-004702
Condition Factors
90-004093
Disease Susceptibility
90-004093
Management/Research--Estuaries
90-004702
Nursery Areas
90-004702
Parasites/Diseases
90-004093
Recruitment
90-004702
Trophic Relationships
90-004093
Alosa fallax fallax
Life History/General
90-003823
Alosa mediocris
Dams
90-004543
Fishways
90-004543
Restoration of Anadromous Runs
90-004543
Alosa pontica pontica
Boat Turbidity
90-002701
Dams
90-002701
Flow Regimes
90-002701
Habitat Alterations
90-002701
Management/Research--Rivers and Streams
90-002701
Navigation Projects
90-002701
Reproduction
90-002701
Spawning Grounds Evaluations
90-002701
Alosa pseudoharengus
Abundance/Factors of
90-002833

...CONTINUED...
Alosa pseudoharengus
Abundance/Factors of
90-004055
90-005864
90-006532
Bioenergetics
90-002251
90-002778
Biomagnification
90-000873
Bird Predation
90-000873
Cannibalism
90-000504
Catch Per Unit Effort
90-002752
Chlorinated Hydrocarbons
90-000873
Cladocerans
90-004621
90-005763
Climate
90-006460
Commercial Fishing
90-000532
90-002833
Dams
90-004543
90-005864
90-006427
90-006428
Distribution/Vertical
90-002217
Egg Predation
90-000504
Escapement
90-005864
90-006427
90-006428
Exotic Species/Great Lakes
90-006509
Exotic Species/Lake Michigan
90-006532
Fish Counters
90-006427
Fishways
90-004543
90-006427
90-006428
Foods/Feeding
90-000504
90-000635
90-001711
90-002251
90-005763
Forecasting
90-006460
Gill Rakers
90-001711
Habitat Alterations
90-006460
Ichthyoplankton
90-002824
Impoundment
90-005864
90-006427
90-006428
Interspecies Relationships
90-006532
Laws/Law Enforcement
90-002833

...CONTINUED...
Alosa pseudoharengus
Life History/General
90-000532
Management/Research--Lakes
90-000635
90-002251
90-002833
90-004055
90-004621
90-004623
90-006460
90-006532
90-006548
Management/Research--Rivers and Streams
90-005864
90-006427
90-006428
Migration
90-000592
Mortality Factors
90-002217
Mortality Rates
90-004055
Nets/Trawls
90-002752
Nursery Areas
90-002824
Overwintering
90-002217
90-004055
Phosphorus
90-002778
Predator/Prey Relationships
90-002251
90-004055
90-005752
90-006460
Recruitment
90-005864
90-006428
Restoration of Anadromous Runs
90-004543
Season
90-002251
Spawning
90-000592
Temperature
90-004055
Thermal Pollution
90-006548
Trophic Relationships
90-002251
90-004621
90-004623
90-006460
90-006532
Winter
90-002217
90-004055
Winterkill
90-002217
Year Class Strength
90-005864
Zooplankton
90-002251
90-004621
Alosa sapidissima
Abundance/Factors of
90-002327
90-003862

...CONTINUED...
Alosa sapidissima
Age/Growth
90-005795
Climate
90-002327
Commercial Fishing
90-004819
Culture/Propagation
90-003057
90-004857
Dams
90-004543
90-004672
90-004677
Density
90-002327
Distribution/Geographical
90-004017
Distribution/Vertical
90-003925
DNA
90-000430
Egg Collection
90-004857
Egg Production
90-003057
90-004857
Egg Stocking
90-003057
90-004857
Fingerling Production
90-003057
Fish Passage
90-004672
Fishways
90-004543
Fry Stocking
90-003057
Impoundment
90-004672
Latitude
90-005795
Life History/General
90-004819
Management/Research--Estuaries
90-003866
Management/Research--Marine
90-004819
Management/Research--Rivers and Streams
90-003057
90-003862
90-004677
Marking/Tagging
90-004672
Mortality Factors
90-002327
Mortality Rates
90-002327
Population Genetics
90-000430
Population Studies
90-003866
Production
90-003057
Recruitment
90-003862
Restoration of Anadromous Runs
90-003057
90-003862
90-004543

...CONTINUED...
Alosa sapidissima
Restoration of Anadromous Runs
90-004677
Season
90-005795
Stock Assessment
90-003862
90-003866
90-006481
Stock Identification
90-006481
Stocking/Introductions
90-003057
Telemetry
90-004672
Alticus kirki
Light
90-001782
Aluterus schoepfi
Aquariums
90-005077
Culture/Propagation
90-005077
Aluterus scriptus
Aquariums
90-005077
Culture/Propagation
90-005077
Ambassis commersoni
Cadmium
90-000906
Heavy Metals
90-000906
Ambassis gymnocephalus
Competition
90-001360
Foods/Feeding
90-001360
Niche Overlaps
90-001360
Salinity
90-001360
Trophic Relationships
90-001360
Ambassis natalensis
Competition
90-001360
Foods/Feeding
90-001360
Niche Overlaps
90-001360
Salinity
90-001360
Trophic Relationships
90-001360
Ambassis productus
Competition
90-001360
Foods/Feeding
90-001360
Niche Overlaps
90-001360
Salinity
90-001360
Trophic Relationships
90-001360
Ambassis vachelli
Age/Growth
90-005811
Otoliths
90-005811
Ambloplites
Morphology
90-000707
Osteology
90-000707
Taxonomy
90-000707
Ambloplites ariommus
Habitat Selection
90-006579
Management/Research--Rivers and Streams
90-006579
Population Studies
90-006579
Ambloplites rupestris
Activity Patterns
90-000509
Biosorption
90-004276
Competition
90-002874
Heavy Metals
90-004276
Interspecies Relationships
90-002874
Lead
90-004276
Management/Research--Lakes
90-002697
Management/Research--Rivers and Streams
90-002874
Mercury
90-004276
Migration
90-002697
Population Studies
90-002874
Predator/Prey Relationships
90-002874
Thermal Pollution
90-002697
Trophic Relationships
90-002874
Amblyceps mangois
Air Breathing
90-003259
Early Development
90-003259
Gills
90-003259
Histology
90-003259
Amblyceps murray-stuarti
Air Breathing
90-003259
Early Development
90-003259
Gills
90-003259
Histology
90-003259
Amblygobius albimaculatus
Osteology
90-005146
Taxonomy
90-005146
Amblypharyngodon melettinus
Harvest
90-006646

Amblyrhynchotes honckenii
Nursery Areas
90-006682
Ameca splendens
Disease Susceptibility
90-005441
Amia calva
Biosorption
90-002560
Bombesin
90-003530
Cytology
90-003420
Digestive System
90-003529
90-003530
Endocrinology
90-003420
Peptides
90-003529
90-003530
Pituitary Gland
90-003420
Pollution
90-002560
Ammocrypta clara
Burrowing Behavior
90-002161
Life History/General
90-002161
Management/Research--Rivers and Streams
90-002161
Population Studies
90-002161
Ammocrypta vivax
Burrowing Behavior
90-002161
Life History/General
90-002161
Management/Research--Rivers and Streams
90-002161
Population Studies
90-002161
Ammodytes
Biomass
90-004813
Electrophoresis
90-000461
Management/Research--Marine
90-004813
Mortality Rates
90-004591
Nursery Areas
90-004697
Population Genetics
90-000461
Ammodytes americanus
Age/Growth
90-002242
Foods/Feeding
90-002242
Life History/General
90-000573
Meristic Studies
90-005887
Mortality Factors
90-002242
Species Identification
90-005887

...CONTINUED...
Ammodytes americanus
Survival
90-002242
Vertebral Counts
90-005887
Ammodytes dubius
Life History/General
90-000573
Meristic Studies
90-005887
Species Identification
90-005887
Vertebral Counts
90-005887
Ammodytes hexapterus
Abundance/Factors of
90-002201
Bird Predation
90-002201
Climate
90-002201
Reproduction
90-002062
Reproductive Cycle
90-002062
Trophic Relationships
90-002201
Variation Studies
90-002062
Ammodytes marinus
Biological Indicators
90-001450
Bird Predation
90-001450
90-004048
Exploitation Rates
90-004048
Fecundity
90-003872
Mammal Predation
90-004048
Management/Research--Marine
90-001450
90-004048
Mortality Factors
90-004048
Movements
90-005523
Population Studies
90-001450
Predator/Prey Relationships
90-004048
Recruitment
90-001450
Spawning
90-003872
Ammodytes personatus
Early Development
90-005659
Exploitation Rates
90-006350
Management/Research--Marine
90-006350
Population Studies
90-005659
90-006350
Recruitment
90-005659
Reproduction
90-002062
90-006350

...CONTINUED...
Ammodytes personatus
Reproductive Cycle
90-002062
Variation Studies
90-002062
Amphiprion
Aquariums
90-001600
Amphiprion clarkii
Mate Selection
90-000516
Sex Reversal
90-000516
Spawning
90-002118
Territorial Behavior
90-002118
Amphiprion frenatus
Hermaphroditism
90-003206
Reproductive System
90-003206
Amphistichus argenteus
Foods/Feeding
90-001689
Jaws
90-001689
Osteology
90-001689
Anabantidae
Early Development
90-001710
Evolution
90-001710
Lateral Line System
90-001710
Scales
90-001710
Anabas scandens
Enzymes
90-003522
Starvation
90-003522
Anabas testudineus
Aeromonas hydrophila
90-004126
Air Breathing
90-003739
Bacterial Diseases
90-004126
Corticosteroids
90-003411
Endocrinology
90-003411
Enzymes
90-003411
Gill Necrosis
90-006172
Heavy Metals
90-000920
Lead
90-000920
Micrococcus varians
90-004126
Operculum
90-003739
Parasites/Diseases
90-004126
90-006172
Pollution
90-006172

...CONTINUED...
Anabas testudineus
Protein Synthesis
90-003411
Reproduction
90-000920
Sewage Effluents
90-006172
Steroids
90-003411
Terrestrial Behavior
90-003739
Ulcer Disease
90-004126
Anarchias cantonensis
Distribution/Geographical
90-000698
Anarchias fuscus
Distribution/Geographical
90-000698
Anarhichas denticulatus
Distribution/Geographical
90-004797
Anarhichas lupus
Age/Growth
90-003809
Culture/Propagation
90-003102
Egg Production
90-003102
Foods/Feeding
90-003809
90-003964
Fry Production
90-003102
Larvae
90-003102
Larval Drift
90-003809
Length-Weight Relationships
90-003809
Mammal Predation
90-000647
Predator/Prey Relationships
90-000647
Anarhichas minor
Culture/Propagation
90-003102
Egg Production
90-003102
Electrophoresis
90-003471
Foods/Feeding
90-003964
Fry Production
90-003102
Larvae
90-003102
Muscle Proteins
90-003471
Anchoa choerostoma
Distribution/Vertical
90-000519
Schooling Behavior
90-000519
Social Behavior
90-000519
Anchoa marinii
Egg Drift
90-004703
Foods/Feeding
90-003937

...CONTINUED...
Anchoa marinii
Larval Drift
90-004703
Nursery Areas
90-004703
Anchoa mitchilli
Age/Growth
90-000546
Bioenergetics
90-000528
Early Development
90-000528
90-000546
Egg Survival
90-000546
Eggs
90-000528
Food Supply
90-000528
90-005761
Foods/Feeding
90-000528
90-005761
Larval Behavior
90-000528
Life History/General
90-000546
Management/Research--Estuaries
90-005761
Mortality Rates
90-000546
Population Studies
90-005712
Recruitment
90-005712
Spawning
90-000528
Trophic Relationships
90-005761
Anchoviella commersonii
Distribution/Geographical
90-003906
Distribution/Seasonal
90-003906
Egg Drift
90-003906
Larval Drift
90-003906
Nursery Areas
90-003906
Anchoviella purpurea
Early Development
90-003870
Egg Size
90-003870
Samplers/Larval Fish
90-004590
Sampling
90-004590
Season
90-003870
Spawning
90-003870
Variation Studies
90-003870
Ancistrus pirareta
Meristic Studies
90-003241
Morphology
90-004077
Morphometry
90-003241

...CONTINUED...
Ancistrus pirareta
New Species
90-004077
Ancistrus piriformis
Meristic Studies
90-003241
Morphology
90-004077
Morphometry
90-003241
New Species
90-004077
Ancistrus spinosus
Bird Predation
90-001283
Management/Research--Rivers and Streams
90-001283
Trophic Relationships
90-001283
Anguilla
Bacterial Diseases
90-002375
Culture/Propagation
90-000733
Larval Drift
90-002226
Parasites/Diseases
90-000733
90-002375
Vibrio anguillarum
90-002375
Anguilla anguilla
Abundance/Factors of
90-003848
Acanthocephala
90-002456
Aeromonas hydrophila
90-000723
90-004088
Age/Growth
90-003230
90-005812
90-005819
Amino Acids
90-005197
Anguillicola
90-004205
Anguillicola crassus
90-000781
90-000785
90-002441
90-002443
90-002445
90-004189
90-004190
90-005999
90-006000
Anthelminthics
90-002443
Behavior
90-006100
Benzyltoluenes
90-004402
Bioaccumulation
90-004254
90-006156
90-006235
Biochemical Composition
90-003302
Biosorption
90-004235

...CONTINUED...
Anguilla anguilla
Brain
90-005334
Cadmium
90-004235
90-004254
Calcium
90-003356
Carbon Dioxide
90-003441
90-003514
Cardiovascular System
90-000299
Catecholamines
90-005334
Chemoreception
90-003793
Commercial Fishing
90-004618
90-006672
Condition Factors
90-003302
90-004093
Culture/Propagation
90-000085
90-000723
90-003055
90-004088
90-004190
90-004193
90-004627
90-005819
Cytology
90-001723
90-005334
Dactylogyrus
90-000723
90-004088
Dermocystidium anguillae
90-006031
Dibenzofuran
90-006156
Diets
90-000085
Digestive System
90-005197
Dioxin
90-006156
Disease Importation
90-000781
Disease Susceptibility
90-004093
Distribution/Factors of
90-005581
Distribution/Vertical
90-002232
Early Development
90-003302
Eggs
90-001723
Eimeria
90-000723
90-004088
Eimeria anguillae
90-000764
Electrofishing
90-004858
Enzymes
90-001842
Evolution
90-005429

...CONTINUED...
Anguilla anguilla
Exotic Species
90-004618
Exploitation Rates
90-004479
Fatty Acids
90-001842
Feeds
90-000085
Genetic Strains
90-005429
Growth Hormone
90-000342
Hatchery/Wild Populations
90-005819
Heart
90-003383
Heavy Metals
90-000827
90-004235
90-004254
90-006100
90-006114
90-006201
90-006235
Helicometra
90-002452
Hematology
90-001944
90-003514
90-003532
90-006201
Hybridization
90-005429
Hydraulic Fluids
90-004402
Hypothalamic-Hypophysial System
90-000342
Ichthyobodo
90-000723
90-004088
Ichthyophthirius multifiliis
90-000723
90-004088
Lactate
90-000299
Lagoons
90-004479
90-005676
Lake Ranching
90-004627
Larvae
90-000785
Lead
90-004235
90-006201
Liver
90-001842
Magnesium
90-006156
Management/Research--Estuaries
90-004479
90-006672
Management/Research--Lakes
90-004618
90-004627
Management/Research--Marine
90-005676
Management/Research--Rivers and Streams
90-004683

...CONTINUED...
Anguilla anguilla
Mark/Recapture
90-005676
Marking/Tagging
90-002232
Mebendazole
90-004193
Mercury
90-004235
90-006100
90-006235
Migration
90-002232
90-002441
90-003793
Movements
90-005581
Musculature
90-003356
Myxidium giardi
90-000723
90-004088
Nematodes
90-000781
90-000785
90-002441
90-002443
90-002445
90-004189
90-004190
90-004205
90-005999
90-006000
Nets/Fyke Nets
90-004536
90-004858
Nutrition
90-000085
Olfaction
90-003793
Optimum Sustainable Yield
90-004683
Organophosphates
90-001944
Orientation/Homing
90-003793
90-005581
Osmoregulation
90-000299
Otoliths
90-003230
90-005812
Oxygen
90-003441
Parasites/Diseases
90-000723
90-000764
90-000774
90-000781
90-000785
90-002441
90-002443
90-002445
90-002452
90-002456
90-004088
90-004093
90-004145
90-004189
90-004190
90-004193

...CONTINUED...
Anguilla anguilla
Parasites/Diseases
90-004205
90-005999
90-006000
90-006031
Paratenuisentis ambiguus
90-002456
pH Regulation
90-003514
Phosphate
90-001944
Pigments
90-003302
Pituitary Gland
90-005334
Plagioporus
90-000723
90-004088
Playas
90-004618
Population Studies
90-003230
90-003848
90-004858
90-005676
Pressure Effects
90-003383
Protein Synthesis
90-000085
Proteins
90-003356
Protozoan Diseases
90-000723
90-000764
90-004145
Pseudodactylogyrus anguillae
90-004193
Pseudodactylogyrus bini
90-004193
Pseudomonas
90-000723
90-004088
Recruitment
90-003848
90-004683
Regulations/General
90-004618
Respiration
90-003441
90-003514
Rhabdovirus anguilla
90-000774
Salinity
90-003793
90-005581
Sampling
90-004536
90-004858
Seagrass Beds
90-006672
Season
90-004235
Sex Determination
90-003445
Stocking/Introductions
90-004627
Survival
90-000785
Swimbladder
90-000299

...CONTINUED...
Anguilla anguilla
Swimbladder
90-003441
90-003514
Telemetry
90-002232
Temperature
90-003055
90-003383
90-003793
Toluene
90-004402
Treatment
90-002443
90-004193
Trematodes
90-002452
90-004193
90-006031
Trophic Relationships
90-004093
90-004618
90-005676
Trypanosoma granulosum
90-004145
Variation Studies
90-003230
Viral Diseases
90-000774
Water Intake
90-000299
Yield
90-004627
Zoogeography
90-005429
Anguilla bicolor
Age/Growth
90-001353
Management/Research--Reservoirs
90-001353
Anguilla japonica
Abnormalities
90-004216
Age/Growth
90-003865
90-005826
Antibodies
90-005283
Bacterial Diseases
90-002371
90-004127
90-005283
Bile
90-003367
Cardiovascular System
90-005202
Culture/Propagation
90-001570
90-002371
90-005900
Cytochalasin
90-001998
Cytology
90-004216
Diets
90-001570
Digestive System
90-003278
90-003279
Disease-Free Culture
90-002371

...CONTINUED...
Anguilla japonica
Distribution/Geographical
90-003906
Distribution/Seasonal
90-003906
Early Development
90-005826
Edwardsiella
90-005283
Edwardsiella tarda
90-002371
Egg Drift
90-003906
Endocrinology
90-005202
90-005223
90-005224
Enzymes
90-003367
Escherichia coli
90-004127
Excretory System
90-003367
Feeds
90-001570
Glucose
90-001998
Growth Hormone
90-005223
90-005224
Heart
90-000177
Hematology
90-001998
90-004216
Hemoproteins
90-003403
Histology
90-000177
Hormones
90-005202
Immune Response
90-004127
90-005283
Ion Transport
90-003278
90-003279
Kidneys
90-004127
Larval Drift
90-003906
Liver
90-003367
Migration
90-003865
Musculature
90-003569
Nitrogen
90-003569
Nursery Areas
90-003906
Nutrition
90-001570
Ormethoprim
90-002371
Osmoregulation
90-003278
90-003279
Osteology
90-005223
90-005224

...CONTINUED...
Anguilla japonica
Otoliths
90-005826
Oxolinic Acid
90-002371
90-004115
Parasites/Diseases
90-002371
90-004115
90-004127
90-004216
90-005283
90-005900
Proteins
90-003604
Recruitment
90-003865
Reticulo-Endothelial System
90-005283
Sulphamonometoxin
90-002371
Temperature
90-005202
Treatment
90-002371
Zinc
90-001570
Anguilla nebulosa
Age/Growth
90-001353
Management/Research--Reservoirs
90-001353
Anguilla rostrata
Acidosis
90-000290
Adrenergic System
90-001864
Aeromonas salmonicida
90-005939
Bacterial Diseases
90-005939
Calcium
90-000349
90-005186
Catecholamines
90-001864
90-005265
Chloride Cells
90-005186
Chromaffin Cells
90-005265
Corpuscle of Stannius
90-000349
Distribution/Geographical
90-002133
Distribution/Vertical
90-002133
Electrophoresis
90-003655
Endocrinology
90-005265
Evolution
90-005429
Genetic Strains
90-005429
Gills
90-005186
Hematology
90-000290
90-001864
90-003655

...CONTINUED...
Anguilla rostrata
Hematology
90-005234
Hybridization
90-005429
Hypercalcemia
90-000349
Hypercapnia
90-000290
90-001864
Ion Transport
90-005186
Kidneys
90-005186
Life History/General
90-000544
90-005618
Opiates
90-005265
Osmoregulation
90-005234
Oxygen
90-001864
Parasites/Diseases
90-005939
Peptides
90-005234
90-005265
pH Regulation
90-001864
Variation Studies
90-003655
Zoogeography
90-005429
Anisochromis straussi
Eggs
90-003239
Anisotremus scapularis
Lobatostoma anisotremum
90-000797
Parasites/Diseases
90-000797
Trematodes
90-000797
Anoplopoma fimbria
Age/Growth
90-006370
Bacterial Diseases
90-005907
90-005917
Bacterial Kidney Disease
90-005917
Fecundity
90-003875
International Fisheries
90-001433
Jurisdiction
90-006721
Lesions
90-005907
Management/Research--Marine
90-001433
90-002943
90-006721
Marketing
90-001433
Marking/Tagging
90-006370
Maturation
90-006370
Maximum Sustainable Yield
90-002943

...CONTINUED...
Anoplopoma fimbria
Modeling
90-001433
Mortality Factors
90-006370
Parasites/Diseases
90-005907
90-005917
90-006370
Population Studies
90-006721
Renibacterium salmoninarum
90-005917
Reproduction
90-003875
Tagging Lesions
90-006370
Viral Diseases
90-005907
Anthias taeniatus
Distribution/Geographical
90-004045
Meristic Studies
90-004045
Morphometry
90-004045
Taxonomy
90-004045
Antimora rostrata
Parasites/Diseases
90-004162
Protozoan Diseases
90-004162
Antipodocottus elegans
Head
90-005885
Scales
90-005885
Taxonomy
90-005885
Apeltes quadracus
Electroshock
90-003496
Navigation Projects
90-003496
Radiation
90-003496
Aphanius dispar
Acidification
90-002563
pH
90-002563
Aphanius iberus
Electrophoresis
90-003649
Enzymes
90-003649
Morphometry
90-003649
Sexual Dimorphism
90-003649
Aphanius mento
Aquariums
90-000142
Courtship
90-000142
Reproduction
90-000142
Aphanopus carbo
Digestive System
90-000263
...CONTINUED...
Aphanopus carbo
Enzymes
90-000263
Temperature
90-000263
Apistogramma
Sex Determination
90-003445
Apistogramma ocellatus
Bacterial Diseases
90-005924
Mycobacterium fortuitum
90-005924
Parasites/Diseases
90-005924
Aplocheilus latipes
Foods/Feeding
90-006300
Mosquito Control
90-006300
Rice Paddies
90-006300
Sex Determination
90-003445
Vector Control
90-006300
Aplodinotus grunniens
Diplostomum spathaceum
90-002444
90-006021
Harvest
90-006558
Management/Research--Rivers and Streams
90-004684
90-006558
Parasites/Diseases
90-002444
90-006021
Recreational Benefits
90-004684
Reservoir Release Effects
90-006558
Sportfishing
90-004684
Trematodes
90-002444
90-006021
Apodichthys flavidus
Recruitment
90-002940
Apogon aureus
Morphometry
90-004079
Taxonomy
90-004079
Apogon fleurieu
Morphometry
90-004079
Taxonomy
90-004079
Apogon pselion
Morphology
90-004079
New Species
90-004079
Taxonomy
90-004079
Apogon taeniatus
Bacterial Flora
90-003554

...CONTINUED...
Apogon taeniatus
Bioluminescence
90-003554
Apogonichthys nigripinnis
Aquariums
90-001600
Culture/Propagation
90-003150
Apolectus niger
DDT
90-002644
Pesticides
90-002644
Aprion macrophthalmus
Fatty Acids
90-000354
Osteology
90-000354
Pressure Effects
90-000354
Aprion virescens
Distribution/Vertical
90-003941
Foods/Feeding
90-003941
Trophic Relationships
90-003941
Apsilus dentatus
Distribution/Geographical
90-000696
Apteronotus leptorhynchus
Anesthetics
90-003537
Cytochrome
90-003463
Cytology
90-003463
Electric Fish
90-003463
90-003537
Electric Organs
90-003537
Electrical Communication
90-005541
Enzymes
90-003463
Archamia zosterophora
Foods/Feeding
90-005767
Archoplites
Morphology
90-000707
Osteology
90-000707
Taxonomy
90-000707
Archoplites interruptus
Extinction
90-006784
Paleontology
90-006784
Archosargus probatocephalus
Culture/Propagation
90-003103
Invertebrate Forage
90-003103
Arctoscopus japonicus
Age/Growth
90-005825
Culture/Propagation
90-004994

...CONTINUED...
Arctoscopus japonicus
Early Development
90-000187
90-005825
Egg Production
90-004994
Embryology
90-000187
Fry Production
90-004994
Otoliths
90-005825
Reproduction
90-005723
Variation Studies
90-005723
Argyrosomus argentatus
Harvest
90-006403
Argyrosomus regium
Abundance/Factors of
90-003859
Nursery Areas
90-003859
Population Studies
90-003859
Ariidae
Reproductive System
90-001705
Aristichthys nobilis
Amino Acids
90-000868
Aquatic Plant Control
90-004089
Brackishwater Culture
90-004940
Cage Culture
90-000039
90-004940
90-004947
90-004969
Culture/Propagation
90-000039
90-000733
90-001555
90-003106
90-003112
90-004159
90-004926
90-004940
90-004947
90-004964
90-004969
90-005037
Diets
90-001555
90-003106
Early Development
90-001555
90-003414
Economics
90-004964
Ectoparasites
90-000799
Electrophoresis
90-002031
Environmental Impacts
90-000039
Eutrophication
90-006655
Fatty Acids
90-003414

...CONTINUED...
Aristichthys nobilis
Feeding Experiments
90-003112
Feeds
90-001555
90-003112
90-005037
Foods/Feeding
90-005760
Hybridization
90-002031
Immune Response
90-000799
Induced Maturation
90-004926
Invertebrate Forage
90-003112
90-005037
Larvae
90-001555
90-003112
90-005037
Lernaea polymorpha
90-000799
Liver
90-000868
Management/Research--Reservoirs
90-006655
Maturation
90-004940
Myxobolus pavloskii
90-000762
Nutrition
90-001555
Parasites/Diseases
90-000733
90-000762
90-000777
90-004089
90-004159
Piscinoodinium pillulare
90-004159
Plankton
90-006655
Ploidy Levels
90-002031
Polyculture
90-003106
90-004964
Pond Culture
90-003106
90-004159
Protozoan Diseases
90-000762
90-004159
Reproduction
90-000237
90-004926
Reproductive Cycle
90-003468
Rhabdovirus carpio
90-000777
Stocking/Introductions
90-004089
90-006655
Tetraploidy
90-003667
Toxins
90-000868
Trophic Relationships
90-006655

...CONTINUED...
Aristichthys nobilis
Variation Studies
90-003678
Viral Diseases
90-000777
Water Quality
90-004969
Arius felis
Biosorption
90-002560
Pollution
90-002560
Arius liropus
Management/Research--Estuaries
90-006666
Population Studies
90-006666
Arius proops
Age/Growth
90-002290
Osteology
90-002290
Arius tenuispinis
Fins
90-000181
Osteology
90-000181
Arius thalassinus
Biosorption
90-002462
Public Health Problems
90-002462
Trace Metals
90-002462
Arnoglossus laterna
Age/Growth
90-003983
Arnoglossus thori
Age/Growth
90-003983
Arripis trutta
Age/Growth
90-001443
Marking/Tagging
90-001443
Otoliths
90-001443
Strontium
90-001443
Artedius harringtoni
Coastal Habitat
90-003934
Foods/Feeding
90-003934
90-003934
Asemichthys taylori
Islands
90-005624
Life History/General
90-005624
Management/Research--Marine
90-005624
Trophic Relationships
90-005624
Aspius aspius
Abnormalities
90-001694
Age/Growth
90-003995
Commercial Fishing
90-004680

...CONTINUED...
Aspius aspius
Digestive System
90-001694
Early Development
90-001694
Otoliths
90-003995
Aspredinidae
Taxonomy
90-002344
Assiculus punctatus
Eggs
90-003239
Asterropteryx semipunctatus
Predator/Prey Relationships
90-000525
Species Recognition
90-000525
Astronesthes
Bioluminescence
90-005529
Communication
90-005529
Astronotus ocellatus
Coloration
90-005171
Defensive Mechanisms
90-005171
Fins
90-005171
Astyanax mexicanus fasciatus
Calliphora
90-004191
Parasites/Diseases
90-004191
Parasitic Insects
90-004191
Ataeniobius toweri
Embryology
90-001904
Atherina boyeri
Life History/General
90-002143
Management/Research--Estuaries
90-002143
Nursery Areas
90-002143
Atherina breviceps
Ichthyoplankton
90-002904
Management/Research--Estuaries
90-002904
Nursery Areas
90-002904
Atherinops affinis
Culture/Propagation
90-003096
Heavy Metals
90-006208
Larvae
90-003096
Larval Identification
90-003096
Pulp Mill Effluents
90-006208
Toxicity Testing
90-006208
Zinc
90-006208
Atherinopsis californiensis
Culture/Propagation
90-003096

...CONTINUED...
Atherinopsis californiensis
Foods/Feeding
90-003972
Larvae
90-003096
Larval Behavior
90-003972
Larval Identification
90-003096
Atractoscion nobilis
Age/Growth
90-003958
Cannibalism
90-003958
Culture/Propagation
90-003095
Hatchery/Wild Populations
90-003095
Larval Behavior
90-003958
Management/Research--Marine
90-003095
Predator/Prey Relationships
90-003958
Sense Organs
90-003958
Supplemental Stocking
90-003095
Atractosteus tristoechus
Morphology
90-001709
Atule mate
Age/Growth
90-003999
Catch Per Unit Effort
90-004787
Distribution/Seasonal
90-004787
Length Frequencies
90-003999
Management/Research--Marine
90-004787
Mortality Rates
90-003999
Auchenipteridae
Reproductive System
90-001705
Aulonocara
Coloration
90-001697
Distribution/Geographical
90-001697
Morphology
90-001697
Aulostomus maculatus
Coloration
90-001704
Pigments
90-001704
Austromenidia bonariensis
Cytology
90-001988
Early Development
90-001988
Electrophoresis
90-000464
Liver
90-001988
Starvation
90-001988
Variation Studies
90-000464

Austromenidia regia
Foods/Feeding
90-001663
Head
90-001663
Jaws
90-001663
Mouth Parts
90-001663
Osteology
90-001663
Auxis
Recruitment
90-005657
Awaous transandeanus
Distribution/Geographical
90-005834
Axoclinus carminalis
Mate Selection
90-000520
Parental Behavior
90-000520
Bagridae
Reproductive System
90-001705
Bagrus bayad
Foods/Feeding
90-000626
Fungal Diseases
90-004139
Mycoplasma
90-004139
Parasites/Diseases
90-004139
Bagrus docmac
Commercial Fishing
90-004616
Exploitation Rates
90-004616
Management/Research--Lakes
90-004616
Balistapus undulatus
Aquariums
90-005085
Culture/Propagation
90-005085
Barbourisia rufa
Distribution/Geographical
90-002320
Barbus
Life History/General
90-001102
Management/Research--Lakes
90-001102
Oil Dispersants
90-006096
Oil Pollution
90-006096
Barbus aeneus
Polyploidy
90-003687
Barbus barbus
Biosorption
90-004276
Distribution/Geographical
90-005683
Heavy Metals
90-000827
90-004276
Lead
90-004276

...CONTINUED...
Barbus barbus
Mercury
90-004276
Population Studies
90-005683
Water Quality
90-005683
Barbus capensis
Polyploidy
90-003687
Barbus chola
Harvest
90-006646
Barbus conchonius
Early Development
90-000205
Embryology
90-000205
Histology
90-000205
Reproductive System
90-000205
Barbus cumingi
Habitat Protection
90-004875
Management/Research--Rivers and Streams
90-004875
Transplanted Species
90-004875
Barbus dorsalis
Harvest
90-006646
Barbus filamentosus
Harvest
90-006646
Barbus kimberleyensis
Polyploidy
90-003687
Barbus meridionalis
Histology
90-001643
Olfaction
90-001643
Barbus microbarbis
Competition
90-004502
Extinction
90-004502
Management/Research--Lakes
90-004502
Barbus natalensis
Polyploidy
90-003687
Barbus neumayeri
Competition
90-004502
Extinction
90-004502
Management/Research--Lakes
90-004502
Barbus nigrofasciatus
Habitat Protection
90-004875
Management/Research--Rivers and Streams
90-004875
Transplanted Species
90-004875
Barbus polylepis
Polyploidy
90-003687

Barbus titteya
Habitat Protection
90-004875
Management/Research--Rivers and Streams
90-004875
Transplanted Species
90-004875
Barbus trimaculatus
Parasites/Diseases
90-004142
Protozoan Diseases
90-004142
Trichodina uretra
90-004142
Barilius bendelisis
Epidermis
90-003210
Histology
90-003210
Barilius bendelisis chedra
Sexual Dimorphism
90-003248
Barilius nelsoni
Morphology
90-004065
New Species
90-004065
Barilius senegalensis
Foods/Feeding
90-000626
Barilius vagra
Sexual Dimorphism
90-003248
Basilichthys microlepidotus
Dewatering
90-005699
Drought
90-005699
Flow Regimes
90-005699
Reproduction
90-005699
Bathychaunax
Fish Lists/Keys
90-002345
Bathychaunax melanostomus
New Species
90-002345
Bathygobius hongkongensis
Life History/General
90-005614
Bathygobius sporoator
Coastal Habitat
90-004749
Distribution/Geographical
90-004749
Management/Research--Marine
90-004749
Population Studies
90-004749
Bathypterois grallator
Distribution/Geographical
90-005844
Bathypterois mediterraneus
Foods/Feeding
90-003927
Bedotia geayi
Aquariums
90-001614
Culture/Propagation
90-001614
Belone belone
Age/Growth
90-000536
Life History/General
90-000536
Benthosema glaciale
Abundance/Factors of
90-005869
Currents
90-005869
Distribution/Vertical
90-000615
90-005755
Foods/Feeding
90-005755
Ichthyoplankton
90-005869
Larval Behavior
90-000615
Larval Drift
90-005869
Trophic Relationships
90-005755
Zooplankton
90-005755
Beryx decadactylus
Early Development
90-003242
Beryx splendens
Early Development
90-003242
Foods/Feeding
90-003935
Morphometry
90-001687
Seamounts
90-003935
Variation Studies
90-001687
Betta foerschi
Aquariums
90-005078
Courtship
90-005078
Culture/Propagation
90-005078
Betta picta
Aquariums
90-005086
Culture/Propagation
90-005086
Betta splendens
Aggressive Behavior
90-003429
Aquariums
90-003142
Courtship
90-003429
Culture/Propagation
90-003142
Nervous System
90-003429
Nests/Nesting
90-003142
Sex Determination
90-003429
90-003445
Spawning
90-003142
Bhavania australis
Reproduction
90-005709

Bidyanus bidyanus
Algae
90-000041
Culture/Propagation
90-000041
90-005971
Egg Composition
90-003274
Fatty Acids
90-003274
Ichthyophthirius multifiliis
90-005971
Lipid Composition
90-003274
Parasites/Diseases
90-005971
Plankton
90-000041
Pond Culture
90-000041
Protozoan Diseases
90-005971
Salinity
90-005971
Treatment
90-005971
Zooplankton
90-000041
Blenniidae
Coexistence
90-004752
Management/Research--Marine
90-004752
Reef Fish Communities
90-004752
Blennius
Taxonomy
90-000704
Blennius canevae
Aquariums
90-002213
Culture/Propagation
90-002213
Life History/General
90-002213
Spawning
90-002213
Blennius dalmatinus
Endocrinology
90-003229
Enzymes
90-003229
Gonads
90-003229
Histology
90-003229
Blennius fluviatilis
Habitat Selection
90-005522
Management/Research--Rivers and Streams
90-005522
Microhabitat
90-005522
Blennius ocellaris
Digestive System
90-001695
Blennius parvicornis
Digestive System
90-005305
Electrolytes
90-005305

...CONTINUED...
Blennius parvicornis
Ion Transport
90-005305
Salinity
90-005305
Blennius pavo
Aquariums
90-001606
Culture/Propagation
90-001606
Digestive System
90-001695
Endocrinology
90-003229
Enzymes
90-003229
Gonads
90-003229
90-005297
Helicometra
90-002452
Histology
90-000202
90-003229
Invertebrate Forage
90-001606
Larvae
90-001606
Parasites/Diseases
90-002452
Reproductive System
90-000202
Sperm
90-005297
Trematodes
90-002452
Variation Studies
90-000202
Blennius pholis
Foods/Feeding
90-005532
Temperature
90-005532
Blennius sanguinolentus
Early Development
90-000200
Embryology
90-000200
Foods/Feeding
90-005532
Temperature
90-005532
Blennius sphinx
Digestive System
90-001695
Blennius tentacularis
Digestive System
90-001695
Blennius verrickeni
Taxonomy
90-005875
Blennius zvonimiri
Activity Patterns
90-002108
Aquariums
90-002108
Photoperiodism
90-002108
Spawning
90-002108
Spawning Cycle Regulation
90-002108

Blicca bjoerkna
Age/Growth
90-003995
Coccidia
90-000767
Flow Regimes
90-006567
Foods/Feeding
90-002268
Habitat Selection
90-004619
Management/Research--Lakes
90-004619
Otoliths
90-003995
Parasites/Diseases
90-000767
Population Studies
90-004619
Protozoan Diseases
90-000767
Recruitment
90-006567
Boleophthalmus boddaerti
Carbohydrate Metabolism
90-003412
Enzymes
90-003412
Gills
90-003412
Hypoxia
90-003412
Lactate
90-003412
Osteology
90-005146
Oxygen
90-003412
Taxonomy
90-005146
Boleophthalmus pectinirostris
Culture/Propagation
90-002027
Embryology
90-002027
Induced Maturation
90-002027
Larvae
90-002027
Boops boops
Bioaccumulation
90-002475
Chromium
90-002475
Cytology
90-001696
Eyes
90-000228
Nervous System
90-001696
Vision
90-001696
Boreogadus saida
Bird Predation
90-003955
Distribution/Geographical
90-004797
Habitat Selection
90-005515
Ice
90-005515

...CONTINUED...
Boreogadus saida
Interspecies Relationships
90-005515
Predator/Prey Relationships
90-003955
Bostrichthys sinensis
Early Development
90-000312
Eggs
90-000312
Embryology
90-000312
Larvae
90-000312
Bothus mancus
Morphology
90-002348
Taxonomy
90-002348
Botia macracanthus
Aquariums
90-003155
Culture/Propagation
90-003155
Boulengerochromis microlepis
Fecundity
90-002195
Parental Behavior
90-002195
Reproduction
90-002195
Brachydanio
Eggs
90-001766
90-001856
Embryology
90-001856
Musculature
90-001856
Proteins
90-001856
Brachydanio rerio
Age/Growth
90-003721
90-004321
Air Pollution
90-002544
Anilines
90-004398
Aromatic Amines
90-004319
90-004321
Behavior
90-003790
90-004318
Biological Monitoring
90-006174
Biosorption
90-002544
Cadmium
90-004403
Chemoreception
90-003790
Chlorinated Benzenes
90-004398
Chlorinated Hydrocarbons
90-002544
Chlorophenols
90-006174
Chromosomes
90-003647

...CONTINUED...
Brachydanio rerio
Copper
90-003790
Culture/Propagation
90-003672
Early Development
90-003647
90-004398
Embryology
90-003647
Fertilization
90-000420
Heavy Metals
90-004403
Hexachlorocyclohexane
90-004318
Hydrazine
90-006190
Incineration
90-002544
Lindane
90-004318
Liver
90-004318
Pollution
90-003790
Polychlorinated Biphenyls
90-002544
Polyploidy
90-003672
Reproduction
90-003721
90-004321
Rubber
90-006231
Sperm
90-000420
Toxicity Testing
90-003721
90-004319
90-004321
90-004398
Toxins
90-004398
Trichloroethylene
90-002544
Trichloroguaiacol
90-006174
Triploid Fish
90-003672
Variation Studies
90-003721
Zinc
90-004403
Brachyistius frenatus
Habitat Selection
90-006701
Kelp Forests
90-006701
Brachymystax lenok
Distribution/Geographical
90-003611
Early Development
90-005427
Enzymes
90-003682
Gills
90-005427
Variation Studies
90-003611
90-003682

...CONTINUED...
Brachymystax lenok
Variation Studies
90-005427
Zoogeography
90-003611
Brevoortia
Fish Preservation
90-006747
Fish Silage
90-006747
Foods/Feeding
90-003937
Oil Production
90-006747
Public Health Problems
90-006747
Selenium
90-006747
Brevoortia aurea
Egg Drift
90-004703
Larval Drift
90-004703
Nursery Areas
90-004703
Brevoortia patronus
Detritus
90-003933
Dikes
90-004455
Distribution/Factors of
90-005736
Erosion Control
90-004455
Fenthion
90-000919
Food Supply
90-003933
Foods/Feeding
90-003933
Ichthyoplankton
90-002231
Insecticides
90-000919
Larval Drift
90-002231
90-005736
Life History/General
90-002231
90-005631
Management/Research--Estuaries
90-002176
90-003933
Management/Research--General
90-004455
Management/Research--Marine
90-004806
Marshes, Salt
90-004455
Nursery Areas
90-002176
90-002231
90-003933
90-004455
Organophosphates
90-000919
Pollution
90-002572
Population Studies
90-002176
90-002572

...CONTINUED...
Brevoortia patronus
Population Studies
90-004806
Public Health Problems
90-002572
Reproduction
90-005631
Risk Analysis
90-002572
Tides
90-005736
Toxicity Testing
90-002572
Trophic Relationships
90-003933
Brevoortia tyrannus
Achlya recurva
90-005951
Age/Growth
90-003950
Coastal Habitat
90-001413
Commercial Fishing
90-000563
Detritus
90-003933
Digestive System
90-003526
Distribution/Geographical
90-002317
Early Development
90-003467
90-003950
Enzymes
90-003526
Eutrophication
90-003950
Food Supply
90-003933
Food Technology
90-002968
Foods/Feeding
90-003933
Fungal Diseases
90-004140
90-005951
Larval Drift
90-002317
Life History/General
90-000563
90-005631
Management/Research--Estuaries
90-002176
90-003933
Management/Research--Marine
90-000563
90-001413
90-004806
Nursery Areas
90-002176
90-003933
Nutrition
90-003950
Otoliths
90-003467
Parasites/Diseases
90-004140
90-005951
Population Studies
90-001413
90-002176

...CONTINUED...
Brevoortia tyrannus
Population Studies
90-004806
Reproduction
90-005631
Salinity
90-005951
Saprolegnia
90-005951
Starvation
90-003467
Trophic Relationships
90-003933
Ulcer Disease
90-004140
Brienomyrus niger
Electric Fish
90-001969
Electric Organs
90-001969
Brycon dentex
Foods/Feeding
90-000626
Bryconamericus iheringi
Foods/Feeding
90-005753
Bryconamericus pectinatus
New Species
90-005893
Sexual Dimorphism
90-005893
Buglossidium luteum
Age/Growth
90-003983
Bythites hollisi
Geothermal Water
90-002142
Life History/General
90-002142
Morphology
90-002142
New Species
90-002142
Calamoichthys calabaricus
Endocrinology
90-000326
Hematology
90-000326
Hormones
90-000326
Reproductive System
90-000326
Callanthias japonicus
Distribution/Geographical
90-002314
Callichthyidae
Reproductive System
90-001705
Calliclinus geniguttatus
Helicometra nimia
90-006011
Parasites/Diseases
90-006011
Trematodes
90-006011
Calliclinus nudiventris
Helicometra nimia
90-006011
Parasites/Diseases
90-006011
Trematodes
90-006011

Callionymus beniteguri
Endocrinology
90-000424
Hormones
90-000424
Induced Maturation
90-000424
Steroids
90-000424
Callionymus delicatulus
Distribution/Geographical
90-000711
Taxonomy
90-000711
Callionymus marquesensis
Distribution/Geographical
90-000711
New Species
90-000711
Callionymus obscurus
Distribution/Geographical
90-000711
New Species
90-000711
Callionymus pleurostictus
Distribution/Geographical
90-000711
Taxonomy
90-000711
Callionymus richardsonii
Biochemical Composition
90-003549
Mucus
90-003549
Callionymus simplicicornis
Distribution/Geographical
90-000711
Taxonomy
90-000711
Campostoma anomalum
Acid Mine Water
90-000812
Bioenergetics
90-002179
Biological Indicators
90-006061
Coexistence
90-003779
Electrophoresis
90-006061
Fecundity
90-002179
Habitat Selection
90-006598
Life History/General
90-002179
Management/Research--Rivers and Streams
90-000812
90-002179
Nests/Nesting
90-000506
90-003779
Pollution
90-000812
Population Studies
90-002179
Sexual Dimorphism
90-000506
Stress
90-006061
Campostoma oligolepis
Allozymes
90-005446
Cantherhines pullus
Aquariums
90-005077
Culture/Propagation
90-005077
Canthigaster rostrata
Embryology
90-003787
Social Behavior
90-003787
Spawning
90-003787
Territorial Behavior
90-003787
Capoeta semifasciolatus
Aquariums
90-003154
Culture/Propagation
90-003154
Spawning
90-003154
Caquetia kraussii
Foods/Feeding
90-000657
Carangidae
Fish Lists/Keys
90-005882
Taxonomy
90-005882
Carangoides fulvoguttatus
Hematology
90-005410
Oxygen
90-005410
Caranx
Fish as Food
90-006740
Predator/Prey Relationships
90-002266
Public Health Problems
90-006740
Caranx bartholomaei
Ciguatera
90-000921
Ichthyotoxin
90-000921
Caranx crysos
Abundance/Factors of
90-005638
Artificial Reefs
90-006716
Distribution/Seasonal
90-005638
Early Development
90-005638
Fish Aggregation Devices
90-006716
Life History/General
90-005638
Management/Research--Marine
90-006716
Population Studies
90-006716
Caranx dentex
Commercial Fishing
90-001392
Caranx ignobilis
Hematology
90-005410

...CONTINUED...
Caranx ignobilis
Oxygen
90-005410
Caranx latus
Ciguatera
90-000921
Ichthyotoxin
90-000921
Osteology
90-001748
Caranx lepturus
Foods/Feeding
90-003937
Caranx malabaricus
Age/Growth
90-001699
Bacterial Flora
90-003554
Bioluminescence
90-003554
Musculature
90-001699
Carassius
Commercial Fishing
90-004680
Carassius auratus
Anesthetics
90-001446
Arousal
90-005570
Auditory Sense
90-001987
Bacterial Flora
90-001962
Bile
90-000241
Bioaccumulation
90-004391
90-006117
90-006211
Biochemical Composition
90-003581
Biosorption
90-000241
Biotransformation
90-002636
90-006211
Brain
90-003233
90-003442
90-003527
90-005176
90-005193
90-005334
Cadmium
90-000241
90-002583
Cage Culture
90-000039
Calcium
90-000334
Cardiovascular System
90-000398
90-003527
90-005396
90-005570
Catecholamines
90-005334
Cell Culture
90-003402
Chemoreception
90-005176

...CONTINUED...
Carassius auratus
Copper
90-000241
90-006117
Courtship
90-001978
Cryopreservation
90-003640
Culture/Propagation
90-000039
90-000733
90-003727
Cytology
90-001677
90-001696
90-001753
90-003217
90-005334
90-005395
90-005413
Dactylogyrus
90-002454
Dioxin
90-006211
Disease Susceptibility
90-003727
Electrical Anesthesia
90-001446
Electrofishing
90-001445
Electrophysiology
90-001987
90-003527
Electroshock
90-001445
Endocrinology
90-001800
90-001801
90-001816
90-001879
90-003577
90-005193
90-005199
90-005355
90-005356
90-005396
90-005401
Environmental Impacts
90-000039
Enzymes
90-002583
90-002630
90-003581
90-005396
Excretory System
90-005360
Exotic Species/Denmark
90-000995
Flyash
90-006211
Foods/Feeding
90-005176
Fumagillin DCH
90-005976
Gene Transfer
90-003727
Genetic Engineering
90-003727
Growth Hormone
90-000342
90-005199

...CONTINUED...
Carassius auratus
Growth Hormone
90-005401
Healing
90-005360
Heart
90-000398
90-005396
Heavy Metals
90-000241
90-000827
90-002583
90-006117
Hematology
90-003217
90-003492
90-005984
Hexachlorobutadiene
90-005360
Hexachlorocyclopentadiene
90-002636
Histology
90-003442
Hoferellus carassii
90-002419
90-005975
90-005976
Hormones
90-001800
90-001801
90-001816
90-001879
90-003577
90-005356
Hybridization
90-000788
90-001816
90-003630
Hypothalamic-Hypophysial System
90-000342
Hypoxia
90-000334
90-000398
90-003492
Immunoglobulins
90-005386
Induced Maturation
90-000364
90-000365
90-005355
Infectious Hematopoietic
Necrosis
90-005984
Karyotypes
90-000480
Kidney Enlargement Disease
90-002419
Learning
90-005176
Light
90-003527
Liver
90-000241
90-002583
90-002630
90-005984
Management/Research--Rivers and
Streams
90-006613
Mercuric Chloride
90-002630

...CONTINUED...
Carassius auratus
Mercury
90-002630
Metabolism
90-003581
Muscle Proteins
90-001753
Musculature
90-002630
90-003581
Nervous System
90-001696
90-001978
90-001987
90-003233
90-005176
90-005349
90-005413
90-005439
Nucleus Transplantation
90-003630
90-003640
Olfaction
90-003562
90-005570
Otoliths
90-000334
Parasites/Diseases
90-000733
90-000788
90-002419
90-002454
90-005360
90-005975
90-005976
90-005984
Pentachlorophenol
90-004391
Peptides
90-003577
Pesticides
90-004391
pH
90-004391
Pharmacology
90-005349
Pheromones
90-003562
Phosphate
90-003581
Photoperiodism
90-000364
90-000365
90-001879
Pigments
90-001753
Pineal Body
90-001879
Pituitary Cysts
90-001816
Pituitary Gland
90-001800
90-001801
90-001816
90-001978
90-003577
90-005199
90-005334
Population Studies
90-000951
Proteins
90-003442

...CONTINUED...
Carassius auratus
Protozoan Diseases
90-002419
90-005975
90-005976
Reconditioning
90-000364
90-000365
Regeneration
90-005360
Reproduction
90-001978
90-005356
Reproductive Cycle
90-000364
90-000365
90-001800
90-001801
90-001816
90-001879
Reproductive System
90-000788
90-005355
Reptile Predation
90-003942
Respiration
90-003492
Sperm
90-001677
Steroids
90-001978
90-005193
90-005401
Stress
90-000334
Techniques/Vision
90-002135
Temperature
90-000364
90-000365
90-000398
90-005395
90-005396
Thermal Tolerance
90-005395
Treatment
90-005976
Trematodes
90-002454
Tributyltin
90-004317
Trophic Relationships
90-006613
Tumors
90-000788
90-001816
90-003402
Viral Diseases
90-005984
Vision
90-001696
90-002135
90-005439
Vitellogenin
90-005401
Wetlands
90-000951
Zinc
90-000241
90-006117
Carassius carassius
Abundance/Factors of
90-006339

...CONTINUED...
Carassius carassius
Activity Patterns
90-001140
Aldehyde Dehydrogenase
90-001927
Anoxia
90-001927
90-001928
Bothriocephalus acheilognathi
90-000779
Brain
90-001928
Cardiovascular System
90-003586
Cestodes
90-000779
Culture/Propagation
90-000779
Electrophysiology
90-003586
Endocrinology
90-000326
90-001928
Enzymes
90-001927
Exploitation Rates
90-004479
Gill Diseases
90-005953
Habitat Selection
90-001140
Heart
90-003586
Hematology
90-000326
Hormones
90-000326
Hydrazine
90-006190
Interspecies Relationships
90-001140
Intraspecies Relationships
90-005561
Lagoons
90-004479
Management/Research--Estuaries
90-004479
Management/Research--Lakes
90-001140
Musculature
90-005393
Parasites/Diseases
90-000779
90-005953
Pollution
90-006339
Population Studies
90-000951
90-005580
90-006339
Predator/Prey Relationships
90-005580
Protozoan Diseases
90-005953
Recruitment
90-006339
Reproductive System
90-000326
Rigor Mortis
90-005393
Schooling Behavior
90-005561

...CONTINUED...
Carassius carassius
Season
90-001927
Stocking/Introductions
90-006503
Stunting
90-005561
Temperature
90-006339
Thermal Pollution
90-006339
Trophic Relationships
90-006503
Wetlands
90-000951
Carassius cuvieri
Culture/Propagation
90-000054
Economics
90-000054
Environmental Impacts
90-000054
Rice-Fish Culture
90-000054
Carassius gibelio
Age/Growth
90-002056
Biochemical Composition
90-002056
Chromosomes
90-002082
Cooling Reservoirs
90-002056
DNA
90-003643
Evolution
90-002082
90-003643
Head
90-005134
Hermaphroditism
90-002082
Hoferellus carassii
90-002419
Kidney Enlargement Disease
90-002419
Management/Research--Reservoirs
90-002056
Osteology
90-005134
Parasites/Diseases
90-000765
90-002419
Ploidy Levels
90-003643
Population Studies
90-002056
Protozoan Diseases
90-000765
90-002419
Reproduction
90-002056
Sex Reversal
90-002082
90-003643
Trypanosoma carassi
90-000765
Variation Studies
90-002056
90-005134
Carassius gibelio langsdorfii
Foods/Feeding
90-002127
...CONTINUED...
Carassius gibelio langsdorfii
Vision
90-002127
Carcharhinidae
Aquariums
90-003146
Culture/Propagation
90-003146
Digestive System
90-001662
Foods/Feeding
90-001662
Life History/General
90-003804
Population Studies
90-003804
Species Identification
90-005147
Teeth
90-001680
Carcharhinus
Auditory Sense
90-000168
Electrophoresis
90-002059
Taxonomy
90-002059
Carcharhinus brachyurus
Commercial Fishing
90-001392
Carcharhinus falciformis
Abundance/Factors of
90-000610
Distribution/Seasonal
90-000610
Foods/Feeding
90-000610
Carcharhinus melanopterus
Age/Growth
90-001541
Aquariums
90-001541
Courtship
90-003871
Culture/Propagation
90-001541
Endocrinology
90-003871
Carcharhinus obscurus
Commercial Fishing
90-001392
Fish as Food
90-006735
Foods/Feeding
90-000174
Morphology
90-000174
Carcharhinus perezi
Abnormalities
90-000164
Embryology
90-000164
Head
90-000164
Carcharhinus plumbeus
Anesthetics
90-004098
Cell Culture
90-003396
Commercial Fishing
90-001392

...CONTINUED...
Carcharhinus plumbeus
Diagnostic Techniques
90-004098
DNA
90-002071
Embryology
90-001903
Evolution
90-002071
Hematology
90-003396
Immune Response
90-003396
Parasites/Diseases
90-004098
Proteins
90-001903
Treatment
90-004098
Carcharhinus porosus
Life History/General
90-005615
Careproctus
Migration
90-003897
Careproctus merretti
Morphology
90-004064
New Species
90-004064
Carpiodes cyprinus
Management/Research--Lakes
90-005913
Parasites/Diseases
90-005913
Cataetyx alleni
Foods/Feeding
90-003927
Catla catla
Culture/Propagation
90-001562
90-003049
90-003071
90-003115
Epidermis
90-001737
Feeding Experiments
90-003115
Feeds
90-001562
Histology
90-001737
Hormones
90-000323
Inbreeding
90-003049
Induced Maturation
90-001853
Invertebrate Forage
90-003115
Polyploidy
90-003071
Tank Culture
90-003115
Catostomidae
Fish Lists/Keys
90-005892
Catostomus
Bioaccumulation
90-002539
90-006206

...CONTINUED...
Catostomus
Dioxin
90-002539
90-006206
Nursery Areas
90-004697
Pulp Mill Effluents
90-006206
Catostomus ardens
Early Development
90-004081
Larval Identification
90-004081
90-005892
Species Identification
90-005892
Catostomus catostomus
Electrophoresis
90-003627
Transferrins
90-003627
Variation Studies
90-003627
Catostomus commersoni
Acidification
90-006218
Ammonia
90-000897
Artemia
90-002236
90-002238
Atresia
90-002212
Benzo(a)pyrene
90-004352
Bioaccumulation
90-004339
90-004342
90-006218
Carcinogens
90-004389
Copper
90-006170
Detritus
90-002236
90-002238
Diplostomum spathaceum
90-002444
DNA
90-004364
Early Development
90-006170
Endocrinology
90-005377
Enzymes
90-004352
Evolution
90-005377
Food Conversion Efficiency
90-002238
Foods/Feeding
90-002236
90-002237
90-002238
Habitat Evaluation
90-002774
Habitat Selection
90-001251
Heavy Metals
90-004339
90-004342

...CONTINUED...
Catostomus commersoni
Heavy Metals
90-006170
Hepatic Neoplasms
90-004344
90-004389
HSI
90-002774
Industrial Wastes
90-004344
Larval Identification
90-005892
Liver
90-004352
Management/Research--Lakes
90-002212
90-006218
Management/Research--Ponds
90-002236
Management/Research--Rivers and Streams
90-001251
90-002774
Mercury
90-004339
Metal Smelters
90-004342
Modeling
90-002774
Mutagens
90-004364
90-004389
Neoplasms
90-004344
Nervous System
90-005377
Nutrition
90-002237
Parasites/Diseases
90-002444
90-004389
Peptides
90-005377
pH
90-006218
Pollution Tolerance
90-006170
Polycyclic Aromatic Hydrocarbons
90-004364
Population Studies
90-002212
Prairie Streams
90-002774
Reproduction
90-002212
Sex Ratios
90-002212
Spawning
90-002212
Species Identification
90-005892
Stream Classification
90-001251
Temperature
90-000897
Toxicity Testing
90-000897
Trematodes
90-002444
Trophic Relationships
90-002236

...CONTINUED...
Catostomus commersoni
Xenobiotics
90-004352
Zinc
90-006170
Catostomus discobolus
Larval Identification
90-005892
Species Identification
90-005892
Catostomus latipinnis
Agonistic Behavior
90-002104
Interspecies Relationships
90-002104
Larval Identification
90-005892
Niche Overlaps
90-002104
Species Identification
90-005892
Catostomus occidentalis
Habitat Selection
90-006565
Temperature Selection
90-006565
Catostomus platyrhynchus
Abundance/Factors of
90-002862
Coexistence
90-002862
Early Development
90-004081
Larval Identification
90-004081
90-005892
Management/Research--Rivers and Streams
90-002862
Species Identification
90-005892
Catostomus tahoensis
Abundance/Factors of
90-002862
Coexistence
90-002862
Management/Research--Rivers and Streams
90-002862
Cebidichthys violaceus
Air Breathing
90-005230
Culture/Propagation
90-005021
Diets
90-005021
Foods/Feeding
90-005021
Metabolism
90-005230
Nutrition
90-005021
Respiration
90-005230
Centrarchidae
Morphology
90-000707
Taxonomy
90-000707
Centrarchus
Morphology
90-000707

...CONTINUED...
Centrarchus
Osteology
90-000707
Taxonomy
90-000707
Centrarchus macropterus
Habitat Selection
90-006579
Management/Research--Rivers and Streams
90-006579
Population Studies
90-006579
Centroberyx
Commercial Fishing
90-001392
Centrolophus niger
Distribution/Geographical
90-004015
Centrophorus acus
Age/Growth
90-005824
Spines
90-005824
Centrophorus granulosus
Life History/General
90-003804
Population Studies
90-003804
Centropomus robalito
Management/Research--Estuaries
90-006666
Population Studies
90-006666
Centropomus undecimalis
Culture/Propagation
90-003103
Early Development
90-000551
Fenthion
90-000919
Insecticides
90-000919
Invertebrate Forage
90-003103
Life History/General
90-000551
Organophosphates
90-000919
Centropristis philadelphica
Foods/Feeding
90-000650
Centropristis striata
Artificial Reefs
90-006716
Fish Aggregation Devices
90-006716
Gear Efficiency
90-006397
Management/Research--Marine
90-006716
Population Studies
90-006716
Predator/Prey Relationships
90-000518
Traps/Baited
90-006397
Centropristis striata striata
Bioenergetics
90-000528
Early Development
90-000528

...CONTINUED...
Centropristis striata striata
Eggs
90-000528
Food Supply
90-000528
Foods/Feeding
90-000528
Larval Behavior
90-000528
Spawning
90-000528
Centropyge nahackyi
Morphology
90-002350
New Species
90-002350
Cephalopsetta ventrocellata
Taxonomy
90-000713
Cetichthys
New Genus
90-002357
Cetomimus grilli
Distribution/Geographical
90-002320
Cetomimus hempeli
Distribution/Geographical
90-002320
Cetorhinus maximus
Distribution/Geographical
90-000692
Cetostoma regani
Distribution/Geographical
90-002320
Chaenocephalus aceratus
Antifreeze Production
90-001924
Copper
90-001924
Enzymes
90-001924
Foods/Feeding
90-000637
Hematology
90-001924
Thermal Tolerance
90-001924
Zinc
90-001924
Chaenodraco wilsoni
Foods/Feeding
90-000637
Sexual Dimorphism
90-001674
Chaenogobius isaza
Foods/Feeding
90-005768
Pigments
90-000325
Season
90-005768
Chaenogobius laevis
Age/Growth
90-003820
Early Development
90-003816
90-003820
Embryology
90-003816
Foods/Feeding
90-003820

...CONTINUED...
Chaenogobius laevis
Life History/General
90-003816
Chaenopsis
Coexistence
90-004752
Management/Research--Marine
90-004752
Reef Fish Communities
90-004752
Chaenopsis alepidota
Distribution/Geographical
90-000694
Chaenopsis roseola
Population Studies
90-005677
Chaetodipterus faber
Life History/General
90-003813
Chaetodon
Abundance/Factors of
90-005658
Distribution/Factors of
90-005658
Reef Fish Communities
90-005658
Chaetodon austriacus
Fecundity
90-005705
Spawning
90-005705
Chaetodon capistratus
Distribution/Geographical
90-005853
Life History/General
90-005853
Chaetodon fasciatus
Fecundity
90-005705
Spawning
90-005705
Chaetodon melanotus
Foods/Feeding
90-002272
Chaetodon miliaris
Lunar Influences
90-005678
Management/Research--Marine
90-005678
Recruitment
90-005678
Reef Fish Communities
90-005678
Chaetodon ocellatus
Distribution/Geographical
90-005853
Life History/General
90-005853
Chaetodon ornatissimus
Social Behavior
90-003744
Chaetodon paucifasciatus
Fecundity
90-005705
Spawning
90-005705
Chaetodon rainfordi
Ortholinea alata
90-002413
Parasites/Diseases
90-002413

...CONTINUED...
Chaetodon rainfordi
Protozoan Diseases
90-002413
Chaetodon sedentarius
Distribution/Geographical
90-005853
Life History/General
90-005853
Chaetodon striatus
Distribution/Geographical
90-005853
Life History/General
90-005853
Chaetodon unimaculatus
Aquariums
90-005083
Courtship
90-003768
Culture/Propagation
90-005083
Sex Determination
90-003768
Chaetognatha
Taxonomy
90-000706
Chaetostoma fischeri
Bird Predation
90-001283
Management/Research--Rivers and Streams
90-001283
Trophic Relationships
90-001283
Chalcalburnus chalcoides
Activity Patterns
90-000286
Bioenergetics
90-003424
Early Development
90-000286
90-003424
Enzymes
90-000286
Larval Behavior
90-000286
Respiration
90-003424
Swimming Performance
90-003424
Chalcalburnus chalcoides mento
Activity Patterns
90-000418
Age/Growth
90-000418
Alpine Lakes
90-002830
Bioenergetics
90-000418
Foods/Feeding
90-006420
Management/Research--Lakes
90-002830
Nets/Netting
90-006420
Sampling
90-006420
Stratification
90-002830
Trophic Relationships
90-002830
Champsocephalus gunnari
Foods/Feeding
90-000637

...CONTINUED...
Champsocephalus gunnari
Muscle Proteins
90-000259
Musculature
90-000259
Channichthyidae
Fish Lists/Keys
90-004087
Channichthys rhinoceratus
Bird Predation
90-005802
Larvae
90-004087
Channichthys velifer
Larvae
90-004087
Chanos chanos
Abundance/Factors of
90-005672
Age/Growth
90-003078
90-004936
90-005060
Amino Acids
90-003107
Biosorption
90-002474
Brackishwater Culture
90-001531
90-001950
90-003125
90-004927
Carcass Traits
90-006732
Condition Factors
90-001950
Culture/Propagation
90-001519
90-001531
90-001950
90-003045
90-003060
90-003078
90-003080
90-003107
90-003125
90-003128
90-003571
90-004927
90-004936
90-004955
90-005012
90-005060
90-006124
90-006732
Diets
90-005012
Digestive System
90-005012
Distribution/Seasonal
90-005672
Economics
90-001519
90-003045
Enzymes
90-005012
Feeding Experiments
90-003107
90-003125
90-004936
90-005012

...CONTINUED...
Chanos chanos
Feeds
90-003128
Fingerling Production
90-003125
Fry Production
90-003080
90-005060
Heavy Metals
90-002474
Hematology
90-001531
90-001950
Hemoproteins
90-001531
Hormones
90-004955
Induced Maturation
90-003571
90-004955
Invertebrate Forage
90-003080
90-005060
Larvae
90-003060
90-004936
Livestock-Fish Culture
90-004927
Management/Research--Estuaries
90-005672
Mercury
90-002474
Nursery Areas
90-005672
Nutrition
90-003107
Osmoregulation
90-001531
Parasites/Diseases
90-006124
Polyculture
90-004927
Pond Culture
90-001519
90-003045
90-003060
90-003125
Potassium
90-001531
Potassium Permanganate
90-000877
90-006124
Production
90-003045
Rice-Fish Culture
90-003128
Sediment Bioassays
90-002474
Sodium
90-001531
Steroids
90-003571
Stunting
90-003078
Survival
90-004936
90-005060
Charax gibbosus
Foods/Feeding
90-000657
Chascanopsetta megagnatha
New Species
90-005874

Chasmichthys dolichognathus
Bioaccumulation
90-004359
Cadmium
90-004359
Heavy Metals
90-004359
Chasmistes liorus
Early Development
90-004081
Larval Identification
90-004081
Chasmodes saburrae
Benthos
90-002096
Habitat Selection
90-002096
Nursery Areas
90-002096
Cheilinus chlorurus
Foods/Feeding
90-005169
Jaws
90-005169
Morphology
90-005169
Mouth Parts
90-005169
Cheilinus diagrammus
Foods/Feeding
90-005169
Jaws
90-005169
Morphology
90-005169
Mouth Parts
90-005169
Cheilinus undulatus
Aggressive Behavior
90-003775
Attacks on Humans
90-003775
Cheilodactylus bergi
Coexistence
90-003776
Food Technology
90-004836
Interspecies Relationships
90-003776
Cheilodonichthys capensis
Nursery Areas
90-006682
Cheimerius nufar
Culture/Propagation
90-000069
Feeding Experiments
90-000069
Larvae
90-000069
Chelmon rostratus
Abundance/Factors of
90-005658
Distribution/Factors of
90-005658
Reef Fish Communities
90-005658
Chelon labrosus
Age/Growth
90-004004
Otolith Preparation
90-004004
Chiloglanis
Fish Lists/Keys
90-002359
Morphology
90-002359
Taxonomy
90-002359
Chiloglanis harbinger
Morphology
90-002359
New Species
90-002359
Chiloglanis niger
Morphology
90-002359
New Species
90-002359
Chiloglanis polypogon
Morphology
90-002359
New Species
90-002359
Chiloglanis reticulata
Morphology
90-002359
New Species
90-002359
Chiloglanis sanagaensis
Morphology
90-002359
New Species
90-002359
Chiloscyllium indicum
DDT
90-002644
Pesticides
90-002644
Chiloscyllium punctatum
Cestodes
90-004195
Parasites/Diseases
90-004195
Spiniloculus mavensis
90-004195
Chimaera monstrosa
Cytology
90-003605
Digestive System
90-003605
Endocrinology
90-003605
Head
90-003234
Histology
90-003234
Nervous System
90-003605
Osteology
90-003234
Rectal Gland
90-003605
Chionobathyscus dewitti
Larvae
90-004087
Chionodraco hamatus
Sexual Dimorphism
90-001674
Chionodraco kathleene
Hematology
90-003589
Thermal Tolerance
90-003589

Chlidichthys inornatus
Eggs
90-003239
Chloroscombrus chrysurus
Abundance/Factors of
90-005638
Distribution/Seasonal
90-005638
Early Development
90-005638
Life History/General
90-005638
Choerodon albigena
Hematology
90-005410
Oxygen
90-005410
Choerodon cyanodus
Cestodes
90-002455
Grillotia overstreeti
90-002455
Parasites/Diseases
90-002455
Choerodon venustus
Cestodes
90-002455
Grillotia overstreeti
90-002455
Parasites/Diseases
90-002455
Chondrichthyes
Attacks on Humans
90-003835
Distribution/Seasonal
90-004741
DNA
90-002075
Early Development
90-003883
Evolution
90-005599
Exploitation Rates
90-004741
Life History/General
90-003835
90-005599
Management/Research--Marine
90-004741
Reproduction
90-003883
Sense Organs
90-003269
Variation Studies
90-005599
Chondrostoma polylepis
Myxidium rhodei
90-000759
Parasites/Diseases
90-000759
Protozoan Diseases
90-000759
Chondrostoma polylepis willkommii
Management/Research--Rivers and Streams
90-006613
Trophic Relationships
90-006613
Chondrostoma toxostoma
Age/Growth
90-005822

...CONTINUED...
Chondrostoma toxostoma
Heavy Metals
90-000827
Meristic Studies
90-005822
Morphometry
90-005822
Taxonomy
90-005822
Chriopeoides pengelleyi
Aquariums
90-003162
Culture/Propagation
90-003162
Spawning
90-003162
Chromis chromis
Anesthetics
90-002590
Chromis dispilus
Endocrinology
90-005337
Gonads
90-005337
Reproduction
90-005337
Spawning
90-005337
Steroids
90-005337
Territorial Behavior
90-005337
Chromis ovalis
Species Identification
90-002358
Taxonomy
90-002358
Chromis punctipinnis
Mammal Predation
90-005868
Chromis viridis
Evolution
90-005750
Food Supply
90-005750
Foods/Feeding
90-005750
Reef Fish Communities
90-005750
Chromogobius zebratus
Distribution/Geographical
90-004016
Chrysichthys
Brackishwater Culture
90-003051
Culture/Propagation
90-003051
Mangroves
90-003051
Site Suitability
90-003051
Chrysichthys nigrodigitatus
Acanthocephalus
90-000769
Fish as Food
90-001421
Parasites/Diseases
90-000769
Protozoan Diseases
90-000769
Storage Effects
90-001421

Chrysichthys walkeri
Acanthocephalus
90-000769
Parasites/Diseases
90-000769
Protozoan Diseases
90-000769
Chrysoblephus cristiceps
Fisherman/Angler Surveys
90-002976
Hermaphroditism
90-001655
Histology
90-003869
Management/Research--Marine
90-002976
Mark/Recapture
90-002976
Marking/Tagging
90-002976
Reproduction
90-003869
Reproductive System
90-003869
Spawning
90-003869
Chrysoblephus laticeps
Fisherman/Angler Surveys
90-002976
Hermaphroditism
90-001655
Histology
90-003869
Management/Research--Marine
90-002976
Mark/Recapture
90-002976
Marking/Tagging
90-002976
Reproduction
90-003869
Reproductive System
90-003869
Spawning
90-003869
Chrysophrys
Culture/Propagation
90-005003
Fry Production
90-005003
Rearing Density
90-005003
Chrysophrys auratus
Commercial Fishing
90-001392
Electrophoresis
90-000693
Histology
90-003219
Osteology
90-003219
Stock Identification
90-000693
Variation Studies
90-000693
Zoogeography
90-000693
Chrysophrys major
Biochemical Composition
90-000071
Carcass Traits
90-000071

...CONTINUED...
Chrysophrys major
Culture/Propagation
90-000071
90-003595
Hatchery/Wild Populations
90-000071
Metabolism
90-003595
Osmoregulation
90-003595
Temperature
90-003595
Cichla ocellaris
Sperm
90-005211
Cichlasoma
Apiosoma piscicola
90-004143
Coloration
90-000682
Fish Lists/Keys
90-000682
Morphology
90-000682
Parasites/Diseases
90-004143
Protozoan Diseases
90-004143
Cichlasoma centrarchus
Aquariums
90-003165
Culture/Propagation
90-003165
Distribution/Geographical
90-005834
Parental Behavior
90-003165
Cichlasoma citrinellum
Coloration
90-000185
90-003214
Crypsis
90-003214
Distribution/Geographical
90-005834
Evolution
90-003685
Foods/Feeding
90-003685
90-005148
90-005149
Jaws
90-000185
90-003685
Mercury
90-002504
Morphometry
90-005149
Pharyngeal Teeth
90-005149
Pollution
90-002504
Polymorphism
90-003214
90-003685
Trophic Relationships
90-003685
Variation Studies
90-000185
90-003685
90-005149

Cichlasoma dovii
Cage Culture
90-001656
Culture/Propagation
90-001656
Early Development
90-001656
Embryology
90-001656
Larvae
90-001656
Cichlasoma loisellei
New Species
90-005876
Taxonomy
90-005876
Cichlasoma managuense
Early Development
90-005156
Embryology
90-005156
Mercury
90-002504
Pollution
90-002504
Cichlasoma meeki
Aggressive Behavior
90-003429
Nervous System
90-003429
Cichlasoma nigrofasciatum
Aggressive Behavior
90-003788
Grazing
90-002707
Lateral Line System
90-000209
Management/Research--Rivers and Streams
90-002707
Nervous System
90-000209
Parental Behavior
90-003762
Polygyny
90-003762
Spawning
90-003762
90-003788
Temperature
90-003788
Territorial Behavior
90-003788
Cichlasoma spilurum
Aquariums
90-005087
Culture/Propagation
90-005087
Cichlasoma tetracantha
Reproduction
90-005725
Spawning
90-005725
Cichlasoma urophthalmus
Culture/Propagation
90-003108
90-003172
Diets
90-003108
Feeding Experiments
90-003108

...CONTINUED...
Cichlasoma urophthalmus
Fish Grading
90-003172
Fry Production
90-003108
Morphometry
90-003172
Nutrition
90-003327
Nutritional Diseases
90-003108
90-003327
Parasites/Diseases
90-003108
90-003327
Vitamins
90-003327
Cichlidae
Early Development
90-005168
Evolution
90-001726
90-002057
90-005168
90-005632
Fish Lists/Keys
90-004026
Head
90-001726
Ichthyophthirius multifiliis
90-004143
Lateral Line System
90-005168
Life History/General
90-005632
Management/Research--Lakes
90-001726
90-003690
Mate Selection
90-005632
Meristic Studies
90-003267
Mitochondria
90-002057
Morphometry
90-003267
Osteology
90-001726
Parasites/Diseases
90-004143
Parental Behavior
90-005632
Protozoan Diseases
90-004143
Scales
90-005142
Speciation
90-002057
90-003690
90-005632
Species Identification
90-003267
Trophic Relationships
90-001726
Variation Studies
90-005142
Water Level Fluctuations
90-003690
Ciliata mustela
Bothriocephalus
90-006038

...CONTINUED...
Ciliata mustela
Cestodes
90-006038
Parasites/Diseases
90-006038
Cilus montti
Parasites/Diseases
90-006035
Pirupalkia queulensis
90-006035
Trematodes
90-006035
Cirrhilabrus balteatus
Morphology
90-000716
New Species
90-000716
Cirrhilabrus exquistus
Aquariums
90-001595
Culture/Propagation
90-001595
Cirrhilabrus johnsoni
Morphology
90-000716
New Species
90-000716
Cirrhilabrus luteovittatus
Morphology
90-000716
New Species
90-000716
Cirrhilabrus rhomboidalis
Morphology
90-000716
New Species
90-000716
Cirrhinus mrigala
Alkyl Benzene Sulfonate
90-004366
Biochemical Composition
90-003352
Carbohydrate Metabolism
90-004366
Culture/Propagation
90-003049
90-003115
90-003352
90-005215
Epidermis
90-001737
Feeding Experiments
90-003115
90-003352
Feeds
90-005215
Fertilization/Soil and Water
90-003352
Foods/Feeding
90-003352
90-005215
Gill Parasites
90-005962
Glucose
90-005215
Hematology
90-005215
Histology
90-001737
Inbreeding
90-003049

...CONTINUED...
Cirrhinus mrigala
Induced Maturation
90-001853
Invertebrate Forage
90-003115
Myxobolus haldari
90-005962
Parasites/Diseases
90-005962
Protozoan Diseases
90-005962
Reproductive Cycle
90-003352
Starvation
90-005215
Tank Culture
90-003115
Cirrhitichthys oxycephalus
Aquariums
90-000567
Life History/General
90-000567
Cirrhitidae
Courtship
90-002093
Reef Fish Communities
90-002093
Sexual Dimorphism
90-002093
Social Behavior
90-002093
Spawning
90-002093
Territorial Behavior
90-002093
Zoogeography
90-002093
Citharichthys sordidus
Commercial Fishing
90-000559
Life History/General
90-000559
Sportfishing
90-000559
Citharichthys stigmaeus
Commercial Fishing
90-000559
Life History/General
90-000559
Sportfishing
90-000559
Citharus linguatula
Heavy Metals
90-002571
Hematology
90-002571
Liver
90-002571
Mercury
90-002571
Musculature
90-002571
Proteins
90-002571
Clarias
Culture/Propagation
90-000038
90-000735
Extension Services
90-000038
Fish as Food
90-000038

...CONTINUED...
Clarias
Oil Dispersants
90-006096
Oil Pollution
90-006096
Parasites/Diseases
90-000734
90-000735
Clarias anguillaris
Age/Growth
90-000057
Bacterial Diseases
90-000749
Biosorption
90-002581
Copper
90-002581
Copper Sulfate
90-006129
Culture/Propagation
90-000043
90-000049
90-000055
90-000056
90-000057
90-000749
Diets
90-000043
90-000055
90-000056
Fingerling Production
90-000043
90-000055
90-000056
Fry Production
90-000057
Heavy Metals
90-002581
Molluscicides
90-006129
Parasites/Diseases
90-000749
Piscicides
90-006129
Pond Culture
90-000049
90-000057
Survival
90-000049
90-000056
90-000057
Tank Culture
90-000055
90-000749
Clarias batrachus
Aeromonas hydrophila
90-004126
Bacterial Diseases
90-004126
Bioenergetics
90-000358
Brain
90-004353
Calcitonin
90-001985
Calcium
90-001985
Corpuscle of Stannius
90-001985
Culture/Propagation
90-004951

...CONTINUED...
Clarias batrachus
Cytology
90-001870
Diammonium Phosphate
90-004396
Egg Production
90-004951
Egg Survival
90-002197
Electrophoresis
90-000442
90-000463
Endocrinology
90-000358
Enzymes
90-004353
Fecundity
90-002197
Fertilizers
90-004396
Fry Production
90-004951
Genetic Strains
90-000442
90-000463
Gonads
90-004312
Heavy Metals
90-004353
Hematology
90-000358
Hormones
90-002197
Induced Maturation
90-002197
Insecticides
90-004312
Isozymes
90-000463
Maturation
90-002197
Mercury
90-004353
Micrococcus varians
90-004126
Organophosphates
90-004312
Parasites/Diseases
90-004126
Pars Distalis
90-001870
Phosphate
90-001985
Pituitary Gland
90-001870
Quinalphos
90-004312
Reproductive Cycle
90-001870
Starvation
90-000358
Steroids
90-004312
Thiourea
90-001870
Thyroxine
90-000358
Ulcer Disease
90-004126
Urea
90-004396

Clarias gariepinus
Activity Patterns
90-000612
Age/Growth
90-000060
90-001781
Chemoreception
90-001953
90-001954
Culture/Propagation
90-000060
90-001582
90-003065
Endocrinology
90-000326
90-001952
90-005400
Feeds
90-001582
Fertilizers
90-004397
Fry Production
90-001582
Genetic Strains
90-003065
Hematology
90-000326
Hormones
90-000326
90-001952
90-002004
90-005400
Karyotypes
90-003065
Larvae
90-001582
Management/Research--Reservoirs
90-001336
Movements
90-000612
Nutrients
90-001336
Olfaction
90-001954
Osmoregulation
90-001781
Oxytetracycline
90-004090
Parasites/Diseases
90-004090
Pheromones
90-001952
90-001953
90-001954
Pituitary Gland
90-005400
Polyculture
90-000060
Predator/Prey Relationships
90-001133
Reproduction
90-001952
Reproductive System
90-000326
90-001954
90-002004
Salinity
90-001781
Season
90-000612
Sex Determination
90-002004

...CONTINUED...
Clarias gariepinus
Survival
90-001781
Trophic Relationships
90-001336
Water Quality
90-001336
Zooplankton
90-001133
Clarias isheriensis
Culture/Propagation
90-004938
Digestive System
90-005239
Enzymes
90-005239
Foods/Feeding
90-005239
Management/Research--Ponds
90-004938
Polyculture
90-004938
Predator Introductions
90-004938
Stocking/Introductions
90-004938
Clarias lazera
Culture/Propagation
90-000049
Pond Culture
90-000049
Survival
90-000049
Clarias macrocephalus
Culture/Propagation
90-001520
Electrophoresis
90-000442
90-000463
Endocrinology
90-000386
Genetic Strains
90-000442
90-000463
Isozymes
90-000463
Management/Research--General
90-001520
Population Studies
90-001520
Reproductive System
90-000386
Rice Paddies
90-001520
Rice-Fish Culture
90-001520
Steroids
90-000386
Tropics
90-001520
Clarias mossambicus
Fecundity
90-000345
Maturation
90-000345
Precipitation
90-000345
Reproductive Cycle
90-000345
Cleisthenes herzensteini
Early Development
90-005622

...CONTINUED...
Cleisthenes herzensteini
Foods/Feeding
90-005622
Larval Drift
90-005622
Cleisthenes pinetorum
Early Development
90-005622
Foods/Feeding
90-005622
Larval Drift
90-005622
Clidoderma asperrimum
Distribution/Geographical
90-002313
Clinidae
Olfaction
90-003238
Osteology
90-003238
Taxonomy
90-003238
Clinocottus analis
Foods/Feeding
90-002265
Clinostomus funduloides
Acrylamide
90-000502
Bioenergetics
90-000502
90-005521
Compensatory Swimming
90-005521
Distribution/Geographical
90-005832
Flow Regimes
90-005521
Habitat Selection
90-000502
Management/Research--Rivers and Streams
90-000502
Marking/Tagging
90-000502
Microhabitat
90-000502
Paints
90-000502
Season
90-005521
Swimming Performance
90-005521
Clupea harengus
Abundance/Factors of
90-000579
90-004260
90-004702
90-006712
Acoustical Methods
90-003505
Age/Growth
90-003825
90-003828
90-005607
90-005679
Anisakis
90-006020
Anisakis simplex
90-006007
Bioaccumulation
90-006064

...CONTINUED...
Clupea harengus
Bioenergetics
90-000218
Biomass
90-004813
Cesium
90-006064
Commercial Fishing
90-002138
90-002927
Computer Applications
90-004856
Diagnostic Techniques
90-006020
Distribution/Vertical
90-000513
DNA
90-000438
Early Development
90-000530
90-000579
90-005607
Egg Collection
90-002199
Egg Identification
90-006767
Egg Survival
90-000579
90-002199
Electrophoresis
90-000693
Enzymes
90-003300
90-005445
Escape Behavior
90-003734
Eutrophication
90-004260
Exploitation Rates
90-002138
Fatty Acids
90-003374
Fecundity
90-003360
Food Supply
90-005607
Fungal Diseases
90-002199
Habitat Improvement/General
90-003825
Harvest
90-004260
Hatchery/Wild Populations
90-000438
Hatching
90-005674
Hypoxia
90-004260
Ichthyophonus
90-002199
Iodine
90-000306
Larvae
90-000864
90-003374
Larval Behavior
90-000530
Larval Drift
90-000513
90-003825
Laws/Law Enforcement
90-002927

...CONTINUED...
Clupea harengus
Life History/General
90-002138
90-003828
90-005592
Light
90-000513
90-005510
Mammal Predation
90-004863
Management/Research--Estuaries
90-004698
90-004702
90-005607
Management/Research--Marine
90-000579
90-002138
90-002927
90-003374
90-003825
90-004260
90-004813
90-006712
Marking/Tagging
90-004498
Maturation
90-005679
Migration
90-000592
90-003828
Mitochondria
90-003300
Morphology
90-002138
Mortality Rates
90-002199
90-004591
Muscle Proteins
90-004863
Nematodes
90-006007
90-006020
Nursery Areas
90-004698
90-004702
90-005607
Otoliths
90-004498
90-004856
Overwintering
90-004698
Parasites/Diseases
90-002199
90-005905
90-006007
90-006020
Phototropism
90-005510
Pollution
90-004260
90-006064
Population Genetics
90-005445
Population Studies
90-000598
90-005679
Predator/Prey Relationships
90-000513
90-003734
Radiation
90-006064

...CONTINUED...
Clupea harengus
Recruitment
90-000579
90-003825
90-004702
90-005607
90-005674
90-005679
90-006712
Red Tides
90-000864
Reproduction
90-000218
RNA
90-000438
Salinity
90-000306
Season
90-003505
Sense Organs
90-003734
Spawning
90-000218
90-000589
90-000592
90-000598
90-002199
90-003825
90-005445
90-005679
Spawning Habitat Restoration
90-003825
Species Identification
90-004863
Stock Identification
90-000693
90-004856
90-005445
Strontium
90-004498
90-006064
Survival
90-000579
90-005607
Swimbladder
90-003505
Swimming Performance
90-000530
Thyroid Gland
90-000306
Trophic Relationships
90-003374
90-006712
Variation Studies
90-000438
90-000693
90-003828
Vision
90-005510
Zoogeography
90-000693
Clupea harengus harengus
Antifreeze Production
90-005198
Condition Factors
90-001836
Distribution/Factors of
90-005198
DNA
90-003863
Fat Column
90-001836

...CONTINUED...
Clupea harengus harengus
Fatty Acids
90-001836
Gear Selectivity
90-004539
Larval Drift
90-002188
90-002226
Lipid Composition
90-001836
Management/Research--Marine
90-003863
Migration
90-005198
Nets/Gill Nets
90-004539
Nutrition
90-001836
Population Studies
90-003863
Recruitment
90-002188
Repopulation
90-003863
Reproduction
90-002188
Stock Assessment
90-003863
Stock Identification
90-003863
Survival
90-002188
Clupea harengus pallasi
Abnormalities
90-005155
Acoustical Methods
90-006771
Age/Growth
90-003843
90-003996
90-004810
Antifreeze Production
90-000362
Commercial Fishing
90-004486
90-004810
Competition
90-003783
Distribution/Vertical
90-006771
Early Development
90-003378
90-003843
90-005155
Eggs
90-005254
90-005255
Embryology
90-005255
Erythrocytic Necrosis Virus
90-005980
Exploitation Rates
90-004810
Fatty Acids
90-000344
Fertilization
90-005254
Food Supply
90-004054
Foods/Feeding
90-003783

...CONTINUED...
Clupea harengus pallasi
Forecasting
90-004746
Genetic Diversity
90-005470
Gonosomatic Index
90-000414
Harvest
90-004486
90-004728
90-004746
90-004810
90-006694
90-006700
Histology
90-005254
Hydromedusae
90-003783
Invertebrate Predation
90-003783
Jurisdiction
90-006721
Length-Weight Relationships
90-004810
Life History/General
90-003819
Lipid Composition
90-000344
Management/Research--Marine
90-004486
90-004728
90-004746
90-004810
90-006700
90-006721
Maturation
90-000414
90-002975
Mortality Factors
90-004054
Mortality Rates
90-004054
Musculature
90-003378
Osmoregulation
90-000362
Otoliths
90-003996
Parasites/Diseases
90-005980
Population Genetics
90-005470
Population Studies
90-004486
90-004746
90-006694
90-006721
Predator/Prey Relationships
90-004054
Recreational Benefits
90-006700
Reproduction
90-005254
Reproductive Cycle
90-000414
90-005254
Reproductive System
90-000344
Roe
90-004486
90-004810

...CONTINUED...
Clupea harengus pallasi
Sampling
90-006766
Scuba
90-006766
Sex Determination
90-002975
Spawning
90-000414
90-006766
Sportfishing
90-006700
Starvation
90-005155
Stock Assessment
90-004746
Survival
90-003843
Swimming Performance
90-003378
Thermal Tolerance
90-000362
Ultrasound Imaging
90-002975
Viral Diseases
90-005980
Visual Estimation Methods
90-006766
Clupeidae
Abundance/Factors of
90-001379
Bioaccumulation
90-006107
Carbohydrate Metabolism
90-003377
Dibenzofuran
90-006107
Dioxin
90-006107
Exercise
90-003377
Management/Research--Marine
90-001379
Musculature
90-003377
Population Studies
90-001060
Public Health Problems
90-006107
Storage Effects
90-006734
Upwelling
90-001379
Clupeiformes
Swimbladder
90-000211
Clupeonella engrauliformis
Meristic Studies
90-001729
Morphometry
90-001729
Season
90-001729
Cobitidae
Aquariums
90-004046
Culture/Propagation
90-004046
Fish Lists/Keys
90-004046
Cobitis aurata
Distribution/Geographical
90-000721

...CONTINUED...
Cobitis aurata
Morphology
90-000721
Taxonomy
90-000721
Cobitis aurata kubanica
Distribution/Geographical
90-000721
Morphology
90-000721
Taxonomy
90-000721
Cobitis granoei
Polyploidy
90-003720
Speciation
90-003720
Species Identification
90-003720
Cobitis maroccana
Management/Research--Rivers and Streams
90-006613
Trophic Relationships
90-006613
Cobitis taenia
Chloride Cells
90-001720
Cytology
90-001720
Evolution
90-005634
Mate Selection
90-005634
Mitochondria
90-001720
Osmoregulation
90-001720
Polyploidy
90-003720
Reproduction
90-005634
Speciation
90-003720
90-005634
Species Identification
90-003720
Variation Studies
90-005634
Cobitis taenia taenia
Chromosomes
90-002055
Polymorphism
90-002055
Codoma ornata
Nests/Nesting
90-002113
Parental Behavior
90-002113
Territorial Behavior
90-002113
Coelorinchus fasciatus
Predator/Prey Relationships
90-003938
Colisa fasciata
Carbohydrate Metabolism
90-003495
Cobalt
90-003495
Gonads
90-006173

...CONTINUED...
Colisa fasciata
Heavy Metals
90-006173
Nickel
90-006173
Colisa labiosa
Foods/Feeding
90-000376
Histology
90-000376
Liver
90-000376
Pigments
90-000376
Cololabis saira
Abundance/Factors of
90-004060
Age/Growth
90-000672
Age/Length Composition
90-000672
Catch Per Unit Effort
90-002749
Culture/Propagation
90-004993
Distribution/Factors of
90-003923
Distribution/Seasonal
90-003923
Fingerling Production
90-004993
Fish Behavior
90-002749
Fry Production
90-004993
Lights
90-002749
Mortality Rates
90-004060
Nets/Dip Nets
90-002749
Nets/Lights
90-002749
Recruitment
90-004060
Salinity
90-003923
Temperature
90-003923
Colossoma macropomum
Culture/Propagation
90-001530
90-003054
Foods/Feeding
90-006656
Management/Research--Reservoirs
90-006656
Pond Culture
90-001530
Production
90-001530
Trophic Relationships
90-006656
Colossoma mitrei
Culture/Propagation
90-003073
Egg Size
90-003073
Gonadotropin
90-003073
Induced Maturation
90-003073
Conger conger
Hematology
90-003532
Maturation
90-002182
Copadichromis azureus
Life History/General
90-004072
New Species
90-004072
Copadichromis mbenjii
Life History/General
90-004072
New Species
90-004072
Copadichromis verduyni
Life History/General
90-004072
New Species
90-004072
Coracinus capensis
Management/Research--Marine
90-001368
Mortality Rates
90-001368
Recruitment
90-001368
Sex Determination
90-003582
Sexual Dimorphism
90-003582
Coregonus
Acidification
90-004712
Acoustical Methods
90-004864
Cage Culture
90-001499
Culture/Propagation
90-001499
90-006495
Early Development
90-005141
Economics
90-006382
Environmental Impacts
90-001499
Enzymes
90-003682
Food Supply
90-006495
Foods/Feeding
90-002267
Invertebrate Forage
90-001499
Larval Behavior
90-002267
Management/Research--General
90-006382
Management/Research--Lakes
90-000159
90-004507
Modeling
90-006495
Mouth Size
90-002267
Plankton
90-000159
Population Studies
90-004507
Predator/Prey Relationships
90-000159

...CONTINUED...
Coregonus
Predator/Prey Relationships
90-002267
Primary Production
90-000159
Recruitment
90-004712
Species Identification
90-005141
Stock Identification
90-005141
Stocking/Introductions
90-006382
Supplemental Stocking
90-004507
Survival
90-006382
90-006495
Trophic Relationships
90-000159
90-001499
Variation Studies
90-003682
90-005141
Zooplankton
90-000159
90-001499
Coregonus acronius
Dactylogyrus amphibothrium
90-004226
Gill Parasites
90-004226
Parasites/Diseases
90-004226
Trematodes
90-004226
Coregonus albula
Abundance/Factors of
90-004634
Acoustical Methods
90-004852
Age/Growth
90-006458
Behavior
90-000844
Bioenergetics
90-006458
Chemoreception
90-000844
Culture/Propagation
90-001625
Echo Sounder
90-004852
Exotic Species/Denmark
90-000995
Exotic Species/Finland
90-004628
Exploitation Rates
90-004412
90-004628
Foods/Feeding
90-006458
Habitat Alterations
90-004412
Hatching
90-001625
Life History/General
90-004412
Management/Research--General
90-004412
Management/Research--Lakes
90-004628

...CONTINUED...
Coregonus albula
Management/Research--Lakes
90-004634
90-004852
Memory
90-000844
Pollution
90-000844
Population Studies
90-000607
Pulp Mill Effluents
90-000844
Sampling
90-004852
Supplemental Stocking
90-004628
Water Level Fluctuations
90-004628
Water Quality
90-004634
Yield
90-004634
Coregonus artedii
Abundance/Factors of
90-000687
Age/Growth
90-002275
Alpine Lakes
90-002852
Bioaccumulation
90-006081
Bioenergetics
90-003880
90-003881
Cannibalism
90-002852
Chromosomes
90-003258
90-005486
Distribution/Geographical
90-000687
DNA
90-003624
90-005486
Dwarfism
90-005486
Fish Kills
90-006095
Interspecies Relationships
90-004592
90-006540
Management/Research--Lakes
90-002852
90-004592
90-006507
90-006540
Meristic Studies
90-003258
Migration
90-003880
90-003881
Mitochondria
90-003258
90-003624
90-005486
Morphometry
90-003258
Polychlorinated Biphenyls
90-006081
Population Studies
90-002156

...CONTINUED...
Coregonus artedii
Population Studies
90-004592
Predator/Prey Relationships
90-002275
Recruitment
90-002156
Spawning
90-003880
90-003881
Stock Assessment
90-002275
Stock Identification
90-003624
Stocking/Introductions
90-006095
Summerkill
90-006095
Trophic Relationships
90-002852
90-006081
90-006095
90-006507
Variation Studies
90-003258
90-003624
Coregonus autumnalis migratorius
Life History/General
90-003832
Morphology
90-003832
Coregonus clupeaformis
Abundance/Factors of
90-000687
Bioaccumulation
90-006081
Bioenergetics
90-003880
90-003881
Climate
90-006471
Commercial Fishing
90-002848
Distribution/Geographical
90-000687
DNA
90-000431
90-005432
Egg Survival
90-003851
Forecasting
90-006471
Harvest
90-002848
Hatchery/Wild Populations
90-005471
Ichthyoplankton
90-002824
Interspecies Relationships
90-004592
Management/Research--Lakes
90-002848
90-003851
90-004592
90-006471
90-006507
90-006540
90-006548
Migration
90-003880
90-003881

...CONTINUED...
Coregonus clupeaformis
Mine Effluents
90-004401
Mitochondria
90-005432
Nursery Areas
90-002824
Polychlorinated Biphenyls
90-006081
Population Genetics
90-000431
90-005432
Population Studies
90-004592
Recruitment
90-002172
90-003851
Spawning
90-003880
90-003881
Stock Identification
90-000431
90-005432
90-005471
Thermal Pollution
90-006548
Trophic Relationships
90-006081
90-006507
90-006540
Uranium
90-004401
Variation Studies
90-005471
Year Class Strength
90-003851
Coregonus hoyi
Abundance/Factors of
90-003857
90-006532
Bioaccumulation
90-004345
Catch Per Unit Effort
90-002752
DDT
90-004345
Dieldrin
90-004345
Food Supply
90-006532
Foods/Feeding
90-005763
Interspecies Relationships
90-006532
Management/Research--Lakes
90-003857
90-004623
90-006507
90-006532
Nets/Trawls
90-002752
Pesticides
90-004345
Polychlorinated Biphenyls
90-004345
Population Studies
90-005668
Predator/Prey Relationships
90-003857
Recruitment
90-003857

...CONTINUED...
Coregonus hoyi
Recruitment
90-006532
Trophic Relationships
90-004623
90-006507
90-006532
Coregonus johannae
Extinction
90-005669
Population Studies
90-005669
Coregonus kiyi
Population Studies
90-005670
Coregonus lavaretus
Abundance/Factors of
90-004628
90-004634
Age/Growth
90-003025
90-004005
Ascorbic Acid
90-001810
Bioaccumulation
90-006107
Cage Culture
90-003025
90-003956
Culture/Propagation
90-001625
90-001810
90-003025
90-003956
Dibenzofuran
90-006107
Dioxin
90-006107
Distribution/Vertical
90-000611
DNA
90-000431
Dredging
90-001252
Early Development
90-001810
Egg Collection
90-001252
Exploitation Rates
90-004628
Fish Control/Removal
90-002846
90-006541
Foods/Feeding
90-003956
Fry Stocking
90-004506
90-004515
Hatching
90-001625
Invertebrate Forage
90-003956
Light
90-003025
90-003956
Management/Research--Lakes
90-001252
90-002846
90-004506
90-004628
90-004634

...CONTINUED...
Coregonus lavaretus
Management/Research--Lakes
90-005663
90-006537
90-006541
Management/Research--Reservoirs
90-004515
Population Genetics
90-000431
Population Studies
90-001252
90-005663
Public Health Problems
90-006107
Scales
90-004005
Stock Identification
90-000431
Stocking/Introductions
90-004506
90-006537
Supplemental Stocking
90-004506
90-004515
90-004628
Trophic Relationships
90-006537
90-006541
Virtual Population Analysis
90-001252
Vitamins
90-001810
Water Level Fluctuations
90-004628
Water Quality
90-004634
Year Class Strength
90-001252
Yield
90-004506
90-004634
Coregonus lavaretus baicalensis
Management/Research--Lakes
90-004640
Population Studies
90-004640
Regulations/General
90-004640
Stock Assessment
90-004640
Coregonus lavaretus maraena
Age/Growth
90-001587
Culture/Propagation
90-001580
90-001587
Diets
90-001580
90-001587
Eutrophication
90-006381
Exotic Species/Japan
90-006381
90-006384
Fatty Acids
90-001580
90-001587
Feeding Experiments
90-001580
90-001587
Fingerling Production
90-001580

...CONTINUED...
Coregonus lavaretus maraena
Management/Research--Lakes
90-006381
90-006384
Nutrient Control
90-006384
Nutrition
90-001580
90-001587
Plankton
90-006384
Stocking/Introductions
90-006381
90-006384
Trophic Relationships
90-006381
90-006384
Coregonus muksun
Early Development
90-000382
Eggs
90-000382
Fatty Acids
90-000382
Lipid Metabolism
90-000382
Protein Synthesis
90-000382
Starvation
90-000382
Coregonus nasus
Age/Growth
90-003252
Culture/Propagation
90-001555
Diets
90-001555
Early Development
90-001555
Feeds
90-001555
Foods/Feeding
90-002260
Larvae
90-001555
Life History/General
90-003252
Morphometry
90-003252
Movements
90-002260
Nutrition
90-001555
Osmoregulation
90-005217
Salinity
90-005217
Coregonus nigripinnis
Abundance/Factors of
90-005667
Population Studies
90-005667
Coregonus nilssoni
Agricultural Drainage
90-002463
Eutrophication
90-002463
Management/Research--Lakes
90-002463
Pollution
90-002463

...CONTINUED...
Coregonus nilssoni
Population Studies
90-002463
Trophic Relationships
90-002463
Coregonus peled
Age/Growth
90-003025
Cage Culture
90-003025
90-003956
Culture/Propagation
90-001625
90-003025
90-003956
Early Development
90-005144
Foods/Feeding
90-003956
Hatching
90-001625
Invertebrate Forage
90-003956
Light
90-003025
90-003956
Coregonus pidschian
Foods/Feeding
90-002270
90-003844
Life History/General
90-003844
Coreoperca kawamebari
Aggressive Behavior
90-003763
Defensive Mechanisms
90-003763
Coris gaimardi
Aquariums
90-001611
Corydoras eques
Aquariums
90-004971
Culture/Propagation
90-004971
Corydoras paleatus
Regeneration
90-005257
Spines
90-005257
Coryphaena hippurus
Bacterial Diseases
90-002381
Carcass Traits
90-003664
Culture/Propagation
90-000072
90-004953
90-005038
DDT
90-002644
Diets
90-005038
Economics
90-004953
Endocrinology
90-003353
Enterobacter agglomerans
90-002381
Enzymes
90-003353

...CONTINUED...
Coryphaena hippurus
Genetic Markers
90-003664
Hatchery/Wild Populations
90-004953
Invertebrate Forage
90-005038
Larvae
90-000072
90-005038
Light
90-000072
Mitochondria
90-003664
Oxygen
90-000410
Pancreas
90-003353
Parasites/Diseases
90-002381
Pesticides
90-002644
Respiration
90-000410
Survival
90-000072
90-005038
Tank Culture
90-000072
Coryphaenoides armatus
Marking/Tagging
90-002716
Parasites/Diseases
90-004162
Protozoan Diseases
90-004162
Coryphaenoides rupestris
Abundance/Factors of
90-003901
Distribution/Seasonal
90-003901
Distribution/Vertical
90-003901
Parasites/Diseases
90-004162
Protozoan Diseases
90-004162
Temperature
90-003901
Coryphaenoides yaquinae
Marking/Tagging
90-002716
Cottidae
Bird Predation
90-002259
Islands
90-005624
Life History/General
90-005624
Management/Research--Marine
90-005624
Recruitment
90-002940
Trophic Relationships
90-005624
Cottus
Fish Lists/Keys
90-004040
Cottus amblystomopsis
Electrophoresis
90-005458

...CONTINUED...
Cottus amblystomopsis
Genetic Diversity
90-005458
Life History/General
90-005609
Speciation
90-005458
Cottus asper
Distribution/Geographical
90-004040
Predator/Prey Relationships
90-005745
Season
90-005745
Cottus asperrimus
Metabolism
90-000236
Oxygen
90-000236
Temperature
90-000236
Cottus bairdi
Acoustico-Lateralis System
90-003757
Bioenergetics
90-005521
Compensatory Swimming
90-005521
90-005536
Competition
90-000486
Flow Regimes
90-005521
Foods/Feeding
90-000486
90-002256
90-003757
90-005536
Habitat Selection
90-000486
Insects
90-002256
Lateral Line System
90-005206
90-005536
Management/Research--Rivers and Streams
90-000486
Microhabitat
90-000486
Morphology
90-005152
Nervous System
90-005206
Predator/Prey Relationships
90-002256
Season
90-005521
Sonic Stimuli
90-003757
Swimming Performance
90-005521
90-005536
Trophic Relationships
90-006591
Variation Studies
90-005152
Ventral Substrate Response
90-003757
Zoogeography
90-005152

Cottus cognatus
Age/Growth
90-002275
Predator/Prey Relationships
90-002120
90-002275
Stock Assessment
90-002275
Cottus confusus
Morphology
90-005152
Variation Studies
90-005152
Zoogeography
90-005152
Cottus gobio
Agonistic Behavior
90-003766
Biomass
90-004660
Management/Research--Rivers and Streams
90-004660
Population Studies
90-004660
Sound Production
90-003766
Cottus gulosus
Habitat Selection
90-006565
Temperature Selection
90-006565
Cottus hangiongensis
Endocrinology
90-003528
Gonosomatic Index
90-003528
Life History/General
90-005609
Reproductive Cycle
90-003528
Vitellogenin
90-003528
Cottus kazika
Life History/General
90-005609
Cottus klamathensis macrops
Metabolism
90-000236
Oxygen
90-000236
Temperature
90-000236
Cottus nozawae
Electrophoresis
90-005458
Genetic Diversity
90-005458
Life History/General
90-005609
Speciation
90-005458
Cottus pitensis
Metabolism
90-000236
Oxygen
90-000236
Temperature
90-000236
Cottus pollux
Life History/General
90-005609
Cottus reinii
Life History/General
90-005609
Cottus ricei
Age/Growth
90-002275
Predator/Prey Relationships
90-002275
Stock Assessment
90-002275
Crenichthys baileyi
Oxygen
90-002012
Thermoregulation
90-002012
Crenichthys baileyi baileyi
Grazing
90-002707
Management/Research--Rivers and Streams
90-002707
Crenichthys nevadae
Endangered/Threatened Species
90-004876
Geothermal Water
90-004876
Management/Research--Rivers and Streams
90-004876
Stocking/Introductions
90-004876
Crenicichla
Evolution
90-003838
Life History/General
90-003838
Predator/Prey Relationships
90-003838
Variation Studies
90-003838
Zoogeography
90-003838
Crenicichla alta
Age/Growth
90-000561
Evolution
90-000561
Life History/General
90-000561
Season
90-000561
Crossostoma lacustre
DNA
90-003718
Enzymes
90-003718
Flow Regimes
90-001301
Management/Research--Rivers and Streams
90-001301
Mitochondria
90-003718
Population Genetics
90-003718
Population Studies
90-001301
Variation Studies
90-003718
Crossostoma tengi
DNA
90-003718

...CONTINUED...
Crossostoma tengi
Enzymes
90-003718
Mitochondria
90-003718
Population Genetics
90-003718
Variation Studies
90-003718
Cryodraco antarcticus
Hematology
90-003589
Thermal Tolerance
90-003589
Ctenochaetus striatus
Foods/Feeding
90-000642
Ctenochaetus strigosus
Fish as Food
90-006740
Public Health Problems
90-006740
Ctenogobius andamanensis
Osteology
90-005146
Taxonomy
90-005146
Ctenogobius horai
Osteology
90-005146
Taxonomy
90-005146
Ctenolucius hujeta
Aquariums
90-001610
Courtship
90-001610
Ctenopharyngodon idella
Aquatic Plant Control
90-002995
90-004089
90-004885
Bays
90-000697
Cage Culture
90-000039
Chromosomes
90-000435
90-000482
Cloning
90-003726
Coexistence
90-003782
Control/Biological
90-003782
90-004885
Culture/Propagation
90-000039
90-000054
90-000080
90-000733
90-001521
90-003049
90-003074
90-003079
90-003726
90-004159
90-004926
90-004934
90-004964
90-005014

...CONTINUED...
Ctenopharyngodon idella
Culture/Propagation
90-005037
90-005438
Cytology
90-002079
Distribution/Geographical
90-000697
DNA
90-002079
Early Development
90-003079
Economics
90-000054
90-004934
90-004964
Electrophoresis
90-002031
Elodea canadensis
90-002241
Elodea densa
90-002241
Environmental Impacts
90-000039
90-000054
Exotic Species/Denmark
90-000995
Exotic Species/Texas
90-000697
Fatty Acids
90-005014
Feeds
90-000080
90-004934
90-005037
Fertilization/Soil and Water
90-003074
Food Conversion Efficiency
90-000080
90-005014
Foods/Feeding
90-000080
90-002241
90-003782
Genetics
90-003079
90-003726
Gynogenesis
90-003726
Habitat Selection
90-005507
Hybridization
90-002031
Inbreeding
90-003049
Induced Maturation
90-004926
Interspecies Relationships
90-003782
Invertebrate Forage
90-005037
Isopods
90-002995
Karyotypes
90-000435
90-000482
Larvae
90-005037
Larval Drift
90-002028
Lipid Composition
90-005014

...CONTINUED...
Ctenopharyngodon idella
Management/Research--Marine
90-000697
Management/Research--Reservoirs
90-005507
Microhabitat
90-005507
Movements
90-005507
Nutrition
90-002241
90-005014
Parasites/Diseases
90-000733
90-004089
90-004159
Piscinoodinium pillulare
90-004159
Ploidy Levels
90-002031
90-002079
Polyculture
90-004934
90-004964
Polyploidy
90-003079
90-005014
90-005438
Pond Culture
90-003074
90-004159
Population Studies
90-002028
Protozoan Diseases
90-004159
Recruitment
90-002028
Reproduction
90-000237
90-002028
90-004926
Reproductive Cycle
90-003468
Rice-Fish Culture
90-000054
Spawning
90-002028
Stocking/Introductions
90-004089
Survival
90-002028
90-003079
90-005438
Temperature
90-005014
Tetraploidy
90-005438
Triploid Fish
90-003079
90-004885
Trophic Relationships
90-002995
Variation Studies
90-003678
Ctenopoma kingsleyae
Morphometry
90-001666
Zoogeography
90-001666
Ctenopoma nebulosum
Distribution/Geographical
90-004078
...CONTINUED...
Ctenopoma nebulosum
Morphology
90-004078
New Species
90-004078
Ctenopoma nigropannosum
Morphometry
90-001666
Zoogeography
90-001666
Ctenopoma pellegrini
Morphometry
90-001666
Zoogeography
90-001666
Ctenopoma petherici
Morphometry
90-001666
Zoogeography
90-001666
Cubiceps capensis
Distribution/Geographical
90-004012
Meristic Studies
90-004012
Morphometry
90-004012
Cubiceps kotlyari
Distribution/Geographical
90-000676
Taxonomy
90-000676
Cubiceps macrolepis
Distribution/Geographical
90-000676
Taxonomy
90-000676
Cubiceps nanus
Distribution/Geographical
90-000676
Taxonomy
90-000676
Cubiceps natalensis
Biochemical Composition
90-004839
Carcass Traits
90-004839
Fish Silage
90-004839
Utilization of Fishery Products
90-004839
Cubiceps pauciradiatus
Distribution/Geographical
90-003834
Life History/General
90-003834
Migration
90-003834
Culaea inconstans
Baitfish
90-006638
Beaver Ponds
90-004686
Economic Value
90-006638
Exotic Species/South Dakota
90-006638
Management/Research--Ponds
90-006638
Wetlands
90-006638

Curimata
Morphology
90-000720
Taxonomy
90-000720
Cyathochromis obliquidens
Digestive System
90-003255
Cyclopterus lumpus
Abundance/Factors of
90-003915
Coastal Habitat
90-003915
Coloration
90-000169
Distribution/Seasonal
90-003915
Eggs
90-000169
Embryology
90-000169
Habitat Selection
90-003915
Mammal Predation
90-000647
Management/Research--Marine
90-003915
Predator/Prey Relationships
90-000647
Season
90-003915
Suckers
90-005129
Cyclothone acclinidens
Fecundity
90-003867
Length-Weight Relationships
90-003867
Reproduction
90-003867
Cyclothone braueri
Abundance/Factors of
90-005869
Currents
90-005869
Ichthyoplankton
90-005869
Larval Drift
90-005869
Cymatogaster aggregata
Management/Research--Estuaries
90-001362
Population Studies
90-001362
Water Quality
90-001362
Cynoglossus macrostomus
Bacterial Flora
90-003554
Bioluminescence
90-003554
Cynolebias
Aquariums
90-001589
Culture/Propagation
90-001589
Habitat Selection
90-001589
Cynolebias affinis
Aquariums
90-003760

...CONTINUED...
Cynolebias affinis
Courtship
90-003760
Culture/Propagation
90-003760
Nests/Nesting
90-003760
Spawning
90-003760
Cynolebias constanciae
Cytology
90-003208
Early Development
90-003208
Embryology
90-003208
Cynolebias nigripinnis
Cytology
90-003208
Early Development
90-003208
Embryology
90-003208
Cynoscion arenarius
Age/Growth
90-003212
Early Development
90-003212
Ichthyoplankton
90-002231
Larval Drift
90-002231
Life History/General
90-002231
Nursery Areas
90-002231
Pigments
90-003212
Variation Studies
90-003212
Cynoscion nebulosus
Abundance/Factors of
90-004732
Bays
90-004732
Culture/Propagation
90-003103
Dikes
90-004455
Egg Collection
90-005698
Endocrinology
90-000380
90-003511
Erosion Control
90-004455
Estradiol
90-000380
Exploitation Rates
90-006292
Fecundity
90-005698
Fenthion
90-000919
Habitat Evaluation
90-000545
Habitat Selection
90-000545
90-004732
Hormones
90-000380

...CONTINUED...
Cynoscion nebulosus
Hormones
90-003511
Insecticides
90-000919
Invertebrate Forage
90-003103
Liver
90-000380
Management/Research--General
90-004455
Management/Research--Marine
90-004732
Marking/Tagging
90-002721
Marshes
90-006292
Marshes, Salt
90-004455
Maturation
90-003511
90-005698
Nursery Areas
90-004455
Organophosphates
90-000919
Reproductive System
90-000380
Seagrass Beds
90-004732
Sportfishing
90-006292
Cynoscion regalis
Bacterial Diseases
90-004103
Gear Selectivity
90-002732
Induced Maturation
90-003893
Maturation
90-003893
Nets/Pound Nets
90-002732
Nets/Seines
90-002732
Parasites/Diseases
90-004103
Reproductive Cycle
90-003893
Spawning
90-003893
Streptococcus
90-004103
Cynoscion striatus
Fish Preservation
90-004822
Food Technology
90-004836
Foods/Feeding
90-003937
Genetic Diversity
90-003634
Harvest
90-004480
Management/Research--Marine
90-004480
Storage Effects
90-004822
Cynoscion xanthulus
Culture/Propagation
90-003094

...CONTINUED...
Cynoscion xanthulus
Egg Production
90-003094
Larvae
90-003094
Salinity
90-003094
Cynotilapia afra
Digestive System
90-003255
Foods/Feeding
90-003970
Cypho purpurascens
Eggs
90-003239
Cyphocharax pantostictos
New Species
90-005894
Cyprinella
Nervous System
90-001863
Turbidity
90-001863
Vision
90-001863
Cyprinella lutrensis
Coexistence
90-004659
Dewatering
90-003703
Flow Regimes
90-003703
Management/Research--Rivers and Streams
90-003703
90-004659
Population Genetics
90-003703
Population Studies
90-004659
Survival
90-003703
Cyprinidae
Aluminum
90-004381
Bacterial Diseases
90-005945
Chlorinated Hydrocarbons
90-004381
Chromosomes
90-005455
Condition Factors
90-004095
Culture/Propagation
90-003088
90-003546
90-005057
Diagnostic Techniques
90-004095
Eggs
90-004381
Electrophysiology
90-003452
Endocrinology
90-001901
90-005233
Erythrodermatitis
90-005945
Evolution
90-005442
Feeds
90-005057

...CONTINUED...
Cyprinidae
Foods/Feeding
90-003546
Gynogenesis
90-003653
Hematology
90-005945
Henneguya
90-005969
Hormones
90-001901
Imprinting
90-003452
Induced Maturation
90-001901
90-005233
Invertebrate Forage
90-005057
Karyotypes
90-005442
Larvae
90-005057
Metabolism
90-005945
Monosex Culture
90-003088
Myxobolus
90-005969
Nutrition
90-003546
90-005057
Olfaction
90-003452
Overwintering
90-003546
Parasites/Diseases
90-005945
90-005969
Polyploidy
90-005442
Protozoan Diseases
90-005969
Temperature
90-005233
Cypriniformes
Taxonomy
90-000715
Cyprinion macrostomus
Life History/General
90-002137
Management/Research--Reservoirs
90-002137
Parasites/Diseases
90-002369
Cyprinion mhalensis
Foods/Feeding
90-005744
Cyprinodon pecosensis
Geothermal Water
90-002989
Habitat Selection
90-005520
Life History/General
90-002989
Management/Research--General
90-002989
Microhabitat
90-002989
Natural Selection
90-003673
Salinity
90-002989

...CONTINUED...
Cyprinodon pecosensis
Spawning
90-005520
Territorial Behavior
90-005520
Cyprinodon variegatus
Aggressive Behavior
90-001829
Bioassay Techniques
90-002591
Biological Monitoring
90-002496
90-002591
Bird Predation
90-000511
Calcium
90-002637
Chlorpyrifos
90-006123
Detritus
90-003932
Electroshock
90-003496
Embryology
90-006123
Evolution
90-000340
Fenthion
90-006121
Food Supply
90-001770
90-006123
Foods/Feeding
90-003932
Habitat Selection
90-000511
Industrial Wastes
90-002496
90-002591
Islands
90-004687
Management/Research--Estuaries
90-003932
Management/Research--Ponds
90-004687
Molybdenum
90-002588
Navigation Projects
90-003496
Osmoregulation
90-000340
Population Studies
90-004687
Predator/Prey Relationships
90-000511
Radiation
90-003496
Reproduction
90-001770
Salinity
90-000340
Season
90-001770
Sewage Effluents
90-002591
90-006244
Spawning
90-001770
Territorial Behavior
90-001770
Testosterone
90-001829

...CONTINUED...
Cyprinodon variegatus
Tides
90-001770
Toxicity Testing
90-002591
Trophic Relationships
90-003932
Urban Runoff
90-006244
Variation Studies
90-001667
Cyprinus carpio
Abundance/Factors of
90-006339
Acanthocephala
90-002456
90-004207
Acidification
90-000893
90-002597
Acoustical Methods
90-006768
Activity Patterns
90-003765
Aeration
90-001442
Aflatoxins
90-000883
Age/Growth
90-001114
90-005294
90-005912
Amino Acids
90-000082
90-003579
90-003585
Ammonia
90-000064
90-000926
Anesthetics
90-001760
Argulus indicus
90-005912
Ascorbic Acid
90-003346
ATP
90-000301
90-000378
Bacterial Diseases
90-000755
90-004123
Bacterial Flora
90-000300
90-001962
90-001989
90-003565
90-005385
Behavior
90-004383
Benthos
90-000067
Benzo(a)pyrene
90-004387
Bioaccumulation
90-006103
90-006209
90-006222
90-006223
90-006227
Biochemical Composition
90-000452

...CONTINUED...
Cyprinus carpio
Biochemical Composition
90-000453
90-001865
90-005247
Biological Monitoring
90-004315
90-004373
90-004407
Biosorption
90-004382
Biotransformation
90-000408
90-004387
Bothriocephalus gowkongensis
90-004220
Brain
90-000278
90-003398
90-005263
Cage Culture
90-000039
90-003585
90-004942
Carbohydrates
90-003579
Carbophos
90-002595
Carcass Traits
90-000452
90-000453
90-001425
90-003483
90-005061
Cardiovascular System
90-001841
90-003598
90-005136
90-005387
Catecholamines
90-005279
Cell Culture
90-000300
Cestodes
90-004220
Chloromyxum cyprini
90-004144
Chlorophos
90-000872
90-000890
90-000904
Chromosomes
90-000434
Cloning
90-003674
Cobalt
90-006103
Condition Factors
90-004407
90-005284
Copper
90-000408
Copper Sulfate
90-002567
Cortisol
90-005965
Cryopreservation
90-001618
Culture/Propagation
90-000039
90-000054

...CONTINUED...
Cyprinus carpio
Culture/Propagation
90-000064
90-000067
90-000078
90-000082
90-000091
90-000093
90-000111
90-000276
90-000727
90-000733
90-000780
90-000789
90-000802
90-001322
90-001425
90-001442
90-001521
90-001549
90-001554
90-001555
90-001562
90-001618
90-003049
90-003074
90-003106
90-003120
90-003315
90-003483
90-003585
90-003674
90-004144
90-004207
90-004220
90-004931
90-004942
90-005026
90-005037
90-005061
90-005477
90-005954
90-006361
Cytochrome
90-001794
90-004311
Cytology
90-000403
90-001686
90-003228
90-004315
Dactylogyrus extensus
90-000790
Dactylogyrus vastator
90-000780
90-000789
90-000790
90-000802
Diagnostic Techniques
90-000790
90-004167
90-005284
Diazinon
90-006227
Dibenzofuran
90-006229
Diets
90-000082
90-001554
90-001555
Digestive Rate
90-000252

...CONTINUED...
Cyprinus carpio
Digestive System
90-003346
90-003565
90-003952
90-005275
90-005370
90-005385
Dioxin
90-006209
90-006229
Disease Susceptibility
90-003619
Disease-Free Culture
90-000802
DNA
90-004364
Dyes
90-004383
Early Development
90-001555
90-003264
90-003414
90-005026
90-005151
90-005294
90-005370
90-005389
Economics
90-000054
Edwardsiella tarda
90-000755
Eggs
90-005361
90-005365
Eimeria subepithelialis
90-005973
Electrical Anesthesia
90-001760
Electrolytes
90-001896
Electrophoresis
90-005489
Embryology
90-005361
Endocrinology
90-000278
90-001816
90-005184
90-005253
90-005263
90-005279
90-005289
90-005293
Environmental Impacts
90-000039
90-000054
Enzymes
90-000301
90-000378
90-000408
90-000904
90-001794
90-002567
90-003447
90-003483
90-004373
90-004380
90-005275
Epidermal Lesions
90-003410

...CONTINUED...
Cyprinus carpio
Epidermis
90-001737
90-003410
90-003570
90-005165
Ether
90-006226
Exotic Species/Denmark
90-000995
Exploitation Rates
90-004479
Fatty Acids
90-003414
Feeding Experiments
90-005026
Feeds
90-000091
90-000093
90-000111
90-000883
90-001549
90-001554
90-001555
90-001562
90-003120
90-005026
90-005037
90-005061
Fenitrothion
90-006227
Fenvalerate
90-004382
Fertilization/Soil and Water
90-000276
90-003074
Fingerling Production
90-000082
Fish Control/Removal
90-006530
Fish Preservation
90-003447
90-004829
Food Conversion Efficiency
90-001554
Foods/Feeding
90-000082
90-001114
90-002127
90-003952
90-006535
Fry Production
90-000780
Fungal Diseases
90-005912
Genetic Markers
90-003710
Genetic Strains
90-005477
90-005489
Genetics
90-003674
Gill Diseases
90-000727
Gills
90-000391
90-001841
90-003570
90-005130
Gonadotropin
90-005184

...CONTINUED...
Cyprinus carpio
Gonadotropin
90-005279
Gonads
90-005293
Goussia carpelli
90-002423
Goussia subepithelialis
90-005972
Growth Hormone
90-000342
90-002050
Gynogenesis
90-003674
90-005440
Hatchery/Wild Populations
90-001425
Healing
90-003410
Heart
90-000295
90-003598
Heavy Metals
90-000408
90-000901
90-004256
90-004311
90-006103
Hematology
90-000401
90-000883
90-000904
90-000926
90-001686
90-001865
90-001944
90-003579
90-004161
90-005184
90-005274
90-005387
Hemoproteins
90-004311
Herbicides
90-004380
90-006222
90-006226
Histology
90-001643
90-001737
90-004382
90-005136
90-005247
Hormones
90-000278
90-001816
90-003398
90-005184
90-005263
Hybridization
90-000788
90-001816
90-003630
Hydrocarbons
90-004382
Hydrogen Peroxide
90-000890
Hyperoxia
90-005387
Hypothalamic-Hypophysial System
90-000342

...CONTINUED...
Cyprinus carpio
Hypoxia
90-001841
Ichthyophthirius multifiliis
90-005965
Ichthyoplankton
90-001339
90-002824
Immune Response
90-000755
90-003619
90-005965
90-005973
Immunoglobulins
90-005386
Inbreeding
90-003049
90-003619
90-003674
Induced Maturation
90-001853
90-003315
90-004931
Infectious Hematopoietic Necrosis
90-004167
Infectious Pancreatic Necrosis
90-004169
Injuries
90-003410
Insecticides
90-002580
90-002650
90-006227
Insects
90-006538
Invertebrate Forage
90-000078
90-003120
90-005037
Iridoviridae
90-000776
Isozymes
90-000401
Karyotypes
90-000434
Kidneys
90-000926
90-005136
Lactate Dehydrogenase
90-002567
Lagoons
90-004479
Larvae
90-001555
90-005026
90-005037
Length-Weight Relationships
90-003264
Light
90-003765
Lipid Composition
90-000453
Lipid Metabolism
90-000895
90-005275
90-005310
90-005389
Liver
90-000408
90-004315

...CONTINUED...
Cyprinus carpio
Liver
90-004380
90-004387
Malathion
90-006227
Management/Research--Estuaries
90-004479
Management/Research--Lakes
90-001114
90-006535
90-006538
90-006548
Management/Research--Ponds
90-000078
90-002882
Management/Research--Reservoirs
90-001322
90-001334
90-001339
Management/Research--Rivers and Streams
90-004684
Maturation
90-003315
90-005184
90-005253
90-005293
90-005365
Metabolic Rates
90-001794
90-003570
90-005219
90-005294
Metabolism
90-000295
90-003548
Metamorphosis
90-005151
Methidathion
90-002567
Mucous Cells
90-005165
Mucus
90-001896
Muscle Proteins
90-000335
90-000336
90-000378
90-003341
90-003397
90-003447
90-003474
90-005209
Musculature
90-000301
90-000452
90-000453
90-002006
90-003228
90-003371
90-003379
90-003397
90-003483
90-003569
90-004208
90-004834
90-005219
90-005247
Mutagens
90-004364

...CONTINUED...
Cyprinus carpio
Mycoplasma mobile
90-004123
Mycotoxins
90-004357
Myxobolus
90-000758
90-002406
90-002422
90-005954
Myxobolus cyprini
90-004144
Myxobolus encephalicus
90-004144
Myxosoma
90-002422
Naphthoflavone
90-004380
Nervous System
90-005130
Net-Pen Culture
90-001322
90-004942
Nitrogen
90-003569
Nucleus Transplantation
90-003630
Nursery Areas
90-002824
Nutrition
90-000082
90-000727
90-001549
90-001555
90-003585
90-005061
90-005389
Nutritional Diseases
90-000727
Olfaction
90-001643
90-001961
90-002597
Organophosphates
90-001944
90-002580
90-002595
90-002650
Organotins
90-000901
Overwintering
90-005276
Oxidizers
90-000895
Oxygen
90-000064
90-000391
90-001841
90-003570
Pancreas
90-004315
Paraquat
90-002567
Parasites/Diseases
90-000727
90-000733
90-000755
90-000758
90-000776
90-000777
90-000778

...CONTINUED...
Cyprinus carpio
Parasites/Diseases
90-000780
90-000788
90-000789
90-000790
90-000802
90-000883
90-002406
90-002422
90-002423
90-002456
90-004123
90-004144
90-004161
90-004167
90-004169
90-004207
90-004208
90-004220
90-005912
90-005954
90-005965
90-005972
90-005973
90-006036
Parasitic Copepods
90-005912
Paratenuisentis ambiguus
90-002456
Pesticides
90-002567
90-004311
pH
90-000893
90-003379
90-006223
Phagocytosis
90-003410
Phenols
90-004315
90-004373
Phenoxyacetic Acid
90-004380
Phosphate
90-001944
Phosphorus
90-000064
Photoperiodism
90-003765
Pituitary Cysts
90-001816
Pituitary Gland
90-001816
90-005279
Plankton
90-006535
Pollution
90-006339
Pollution Avoidance
90-002100
Pollution Tolerance
90-002595
Polyculture
90-003106
90-006361
Polycyclic Aromatic Hydrocarbons
90-004364
Pond Culture
90-000064
90-000067

...CONTINUED...
Cyprinus carpio
Pond Culture
90-000078
90-000276
90-000727
90-000789
90-000802
90-003074
90-003106
Population Studies
90-006339
Protein Metabolism
90-005275
90-005370
Protein Synthesis
90-000252
Proteins
90-001865
90-003379
90-005178
90-005274
90-005276
Protozoan Diseases
90-000758
90-002406
90-002422
90-002423
90-004144
90-004161
90-005954
90-005965
90-005972
90-005973
Public Health Problems
90-004256
Rearing Density
90-000067
90-000078
Recreational Benefits
90-004684
Recruitment
90-006339
Reproductive Cycle
90-001816
90-003468
90-005253
Reproductive System
90-000788
90-005289
Reservoir Release Effects
90-002100
Respiration
90-000391
90-001794
90-003570
Respiratory System
90-005130
90-005387
Rhabdovirus carpio
90-000777
90-000778
Rhadinorhynchus chongmingnensis
90-004207
Rice-Fish Culture
90-000054
Salinity
90-003447
Saprolegnia
90-005912
Schooling Behavior
90-002121

...CONTINUED...
Cyprinus carpio
Season
90-005253
90-005276
Sediment Bioassays
90-006229
Sekoke Disease
90-004208
Selective Breeding
90-003674
Social Behavior
90-002121
Spawning Cycle Regulation
90-004931
Sperm
90-005178
90-005293
Sperm Preservation
90-001618
Sphaerospora molnari
90-004144
Sphaerospora renicola
90-004144
Spleen
90-000926
Sportfishing
90-004684
Starvation
90-001865
90-003548
90-005026
90-005389
Steroids
90-005253
90-005289
90-005293
Stock Identification
90-003619
Storage Effects
90-001432
90-003379
90-004829
90-004834
90-005061
Stress
90-001896
90-003598
90-004407
Surfactants
90-004311
Swimbladder
90-000300
Swimbladder Disease
90-000758
Swimbladder Ectasia
90-002406
Swimming Performance
90-002006
90-005219
Taste and Odor Problems
90-005061
Temperature
90-000064
90-001794
90-003341
90-003371
90-003483
90-003765
90-005209
90-005219
90-005247

...CONTINUED...
Cyprinus carpio
Temperature
90-005276
90-005294
90-006339
Thelohanellus hovarkai
90-004144
Thelohanellus nikolskii
90-004144
Thermal Pollution
90-002100
90-006339
90-006548
Thermal Tolerance
90-003341
Thymus
90-000926
Thyroid Gland
90-005263
Toxicity Testing
90-004382
90-006209
Toxins
90-000904
Trace Metals
90-004256
Treatment
90-004220
Trematodes
90-000780
90-000790
90-000802
Tributyltin
90-006223
Trichlorfon
90-002580
90-002650
Triphenyltin Chloride
90-006223
Triploid Fish
90-000452
90-000453
90-005440
Trophic Relationships
90-000078
90-002882
90-006530
90-006535
90-006538
Trypanoplasma borreli
90-004161
Tumors
90-000788
90-001816
90-006036
Turbidity
90-002882
Urea
90-005284
Variation Studies
90-005477
90-005488
90-005489
Viral Diseases
90-000776
90-000777
90-000778
90-004167
90-004169
Vision
90-002127

...CONTINUED...
Cyprinus carpio
Vitamins
90-001549
90-003565
Water Quality
90-000064
90-000091
90-000727
Winter
90-005276
Xenobiotics
90-004357
90-004380
90-004387
Zinc
90-000408
90-005389
Cyprinus carpio chilia
Scales
90-005173
Cyprinus carpio nudus
Cage Culture
90-004219
Culture/Propagation
90-004219
Diplozoon nipponicum
90-004219
Parasites/Diseases
90-004219
Trematodes
90-004219
Cyprinus carpio rubrofuscus
Scales
90-005173
Cyprinus ilishoestomus
Scales
90-005173
Cyprinus pellegrini
Scales
90-005173
Cyprinus yunnanensis
Scales
90-005173
Cypselurus melanurus
Nematobothrium atlanticus
90-002447
Parasites/Diseases
90-002447
Trematodes
90-002447
Cypselurus nigricans
Nematobothrium atlanticus
90-002447
Parasites/Diseases
90-002447
Trematodes
90-002447
Dacodraco hunteri
Larvae
90-004087
Dalatias licha
Distribution/Geographical
90-004025
Danacetichthys
New Genus
90-002357
Dascyllus reticulatus
Sex Reversal
90-005371
Dasyatidae
Life History/General
90-003804

...CONTINUED...
Dasyatidae
Population Studies
90-003804
Dasyatis americana
Cell Culture
90-003396
Hematology
90-003396
Immune Response
90-003396
Predator/Prey Relationships
90-005778
Dasyatis garouaensis
Ampullae of Lorenzini
90-000196
Evolution
90-000196
Dasyatis marmorata
Parasites/Diseases
90-004229
Trematodes
90-004229
Trimusculotrema micracantha
90-004229
Dasyatis sabina
Brain
90-001725
Photoreception
90-000167
Vision
90-000167
Decapterus punctatus
Abundance/Factors of
90-005638
Artificial Reefs
90-006716
Distribution/Seasonal
90-005638
Early Development
90-005638
Fish Aggregation Devices
90-006716
Life History/General
90-005638
Management/Research--Marine
90-006716
Population Studies
90-006716
Decapterus russellii
Age/Growth
90-002808
Population Studies
90-002808
von Bertalanffy Growth Function
90-002808
Dentex dentex
Eyes
90-000228
Dianema urostriata
Aquariums
90-003140
Culture/Propagation
90-003140
Diaphus pacificus
Electrophoresis
90-005425
Fecundity
90-003867
Isozymes
90-005425
Length-Weight Relationships
90-003867

...CONTINUED...
Diaphus pacificus
Reproduction
90-003867
Zoogeography
90-005425
Diapterus peruvianus
Foods/Feeding
90-002243
Lagoons
90-002243
Management/Research--Estuaries
90-006666
Population Studies
90-006666
Dicentrarchus labrax
Abundance/Factors of
90-004702
Activity Patterns
90-003742
Age/Growth
90-000565
90-004002
Amino Acids
90-000343
Anesthetics
90-002590
Bacterial Diseases
90-002408
90-005920
90-005927
Benzo(a)pyrene
90-004360
Bioenergetics
90-003437
Brain
90-005180
Carbohydrate Metabolism
90-000347
Chromosomes
90-003615
Costia
90-002408
Culture/Propagation
90-000243
90-001621
90-003100
90-003118
90-003437
90-003516
90-003540
90-005920
90-005927
Diagnostic Techniques
90-005920
Diets
90-003516
Early Development
90-003316
90-003437
90-003516
90-003540
Edwardsiella ictaluri
90-005920
Egg Quality
90-000243
Endocrinology
90-003292
90-003316
90-003521
90-003543
90-005180

...CONTINUED...
Dicentrarchus labrax
Enzymes
90-000346
90-003516
Exploitation Rates
90-004479
Fecundity
90-002198
Feeding Experiments
90-005032
Feeds
90-005032
Fish Kills
90-005920
Fungal Diseases
90-005952
Heart
90-000343
Hematology
90-000346
90-000371
Histology
90-003292
Hormones
90-003316
90-005180
Hypothalamic-Hypophysial System
90-003316
Ichthyobodo
90-002408
Ichthyophonus
90-005952
Induced Maturation
90-000243
Insulin
90-000347
Invertebrate Forage
90-003118
Karyotypes
90-003615
Lagoons
90-000565
90-004479
Larvae
90-001621
90-003437
90-003516
Life History/General
90-000565
Lipid Metabolism
90-000347
90-005032
Management/Research--Estuaries
90-004479
90-004702
Marking/Tagging
90-003742
Maturation
90-000565
90-002198
90-003543
Medication In Diets
90-005927
Musculature
90-000343
Nursery Areas
90-004702
Nutrition
90-000343
90-003437
90-003516

...CONTINUED...
Dicentrarchus labrax
Osmoregulation
90-000346
Otoliths
90-004002
Pancreas
90-003292
Parasites/Diseases
90-002408
90-004160
90-005920
90-005927
90-005952
Photoperiodism
90-000243
Pigments
90-003540
Pituitary Gland
90-003316
90-005180
Pond Culture
90-003100
Protein Metabolism
90-003540
Proteins
90-000371
Protozoan Diseases
90-002408
90-004160
Recruitment
90-004702
Reproductive Cycle
90-003521
Salinity
90-000346
Salt Mining
90-003100
Season
90-003521
Site Suitability
90-003100
Spawning Cycle Regulation
90-000243
Sphaerospora testicularis
90-004160
Steroids
90-003521
90-003543
Temperature
90-000343
90-003742
Temperature Selection
90-003742
Treatment
90-002408
Vaccination
90-005927
Vibrio anguillarum
90-002408
90-005927
Vibrio vulnificus
90-002408
Xenobiotics
90-004360
Diodon
Aquariums
90-000538
Defensive Behavior
90-000538
Life History/General
90-000538

Diogenichthys laternatus
Electrophoresis
90-005425
Isozymes
90-005425
Recruitment
90-005657
Zoogeography
90-005425
Dionda episcopa
Evolution
90-003652
Diplectrum formosum
Artificial Reefs
90-006716
Fecundity
90-005722
Fish Aggregation Devices
90-006716
Management/Research--Marine
90-006716
Maturation
90-005722
Population Studies
90-006716
Reproduction
90-005722
Diplodus annularis
Electrophoresis
90-003288
Eyes
90-000228
Histology
90-005317
Muscle Proteins
90-003288
Proteins
90-003288
Reticulo-Endothelial System
90-005317
Spleen
90-005317
Starvation
90-005317
Diplodus puntazzo
Culture/Propagation
90-003641
Early Development
90-003621
Electrophoresis
90-003288
Eyes
90-000228
Hybridization
90-003641
Isozymes
90-003621
Muscle Proteins
90-003288
Proteins
90-003288
Variation Studies
90-003621
Diplodus sargus
Early Development
90-003621
Electrophoresis
90-003288
Eyes
90-000228
Heavy Metals
90-006075

...CONTINUED...
Diplodus sargus
Isozymes
90-003621
Mercury
90-006075
Muscle Proteins
90-003288
Nursery Areas
90-006682
Proteins
90-003288
Variation Studies
90-003621
Diplodus vulgaris
Culture/Propagation
90-003641
Electrophoresis
90-003288
Eyes
90-000228
Hybridization
90-003641
Muscle Proteins
90-003288
Proteins
90-003288
Diplophos maderensis
Distribution/Geographical
90-003801
Reproduction
90-003801
Diplospinus gracilis
Bird Predation
90-005802
Diptychus dybowskii
Karyotypes
90-005475
Polyploidy
90-005475
Diptychus gymnogaster
Karyotypes
90-005475
Polyploidy
90-005475
Diptychus micromaculatus
Karyotypes
90-005475
Polyploidy
90-005475
Diptychus sewerzowi
Karyotypes
90-005475
Polyploidy
90-005475
Distichodus lusosso
Aquariums
90-005072
Culture/Propagation
90-005072
Distichodus sexfasciatus
Aquariums
90-005072
Culture/Propagation
90-005072
Ditropichthys storeri
Distribution/Geographical
90-002320
Dorosoma cepedianum
Abnormalities
90-001651
Abundance/Factors of
90-006504

...CONTINUED...
Dorosoma cepedianum
Abundance/Factors of
90-006569
90-006640
Aeromonas sobria
90-000751
Age/Growth
90-006569
Backwater Lakes
90-001291
Bacterial Diseases
90-000751
Competition
90-003976
90-006640
90-006647
Dams
90-004543
Distribution/Factors of
90-006569
Distribution/Geographical
90-002318
Exotic Species
90-006647
Exotic Species/Missouri
90-006375
Fishways
90-004543
Foods/Feeding
90-003976
90-005790
Forage Introductions
90-006375
90-006378
Habitat Selection
90-001291
90-006504
Head
90-001651
Ichthyoplankton
90-002824
Injuries
90-001651
Larval Drift
90-002318
Management/Research--Lakes
90-006504
Management/Research--Ponds
90-006640
Management/Research--Reservoirs
90-006375
90-006647
Management/Research--Rivers and Streams
90-001291
Microhabitat
90-001291
Niche Overlaps
90-003976
90-006647
Nursery Areas
90-001291
90-002824
90-006504
Parasites/Diseases
90-000751
Population Studies
90-005712
Recruitment
90-005712
Reproduction
90-006569

...CONTINUED...
Dorosoma cepedianum
Restoration of Anadromous Runs
90-004543
Stocking/Introductions
90-006375
90-006378
90-006647
Trophic Relationships
90-005790
90-006640
90-006647
Dorosoma petenense
Abundance/Factors of
90-006504
90-006640
Competition
90-003976
90-006377
90-006640
90-006647
Exotic Species
90-006647
Exotic Species/Oklahoma
90-006377
Foods/Feeding
90-003976
Forage Introductions
90-006377
90-006378
Habitat Selection
90-006504
Ichthyoplankton
90-001339
Management/Research--Lakes
90-006504
Management/Research--Ponds
90-006640
Management/Research--Reservoirs
90-001339
90-006377
90-006647
Niche Overlaps
90-003976
90-006647
Nursery Areas
90-006504
Stocking/Introductions
90-006377
90-006378
90-006647
Trophic Relationships
90-006377
90-006640
90-006647
Doryrhamphus dactyliophorus
Aquariums
90-001600
Culture/Propagation
90-003150
Doumea thysi
Morphology
90-000717
New Species
90-000717
Echeneis naucrates
Hematology
90-005410
Oxygen
90-005410
Economidichthys pygmaeus
Morphology
90-004068

Economidichthys trichonis
Morphology
90-004068
New Species
90-004068
Eigenmannia
Electric Fish
90-001874
90-001875
90-002009
90-002030
90-003319
Electric Organs
90-001874
90-002030
Electrical Communication
90-001875
90-005541
Electrolocation
90-001875
Electroreception
90-002009
Nervous System
90-001874
90-002030
90-003319
Eigenmannia virescens
Anesthetics
90-003537
Cytochrome
90-003463
Cytology
90-003260
90-003463
Electric Fish
90-003463
90-003484
90-003537
Electric Organs
90-003484
90-003537
Enzymes
90-003463
Osteology
90-003260
Temperature
90-003484
Elasmobranchii
Anesthetics
90-003358
Auditory Sense
90-000168
90-001716
Biochemical Composition
90-003683
Brain
90-000190
Cestodes
90-004187
Commercial Fishing
90-001392
Endocrinology
90-000258
Evolution
90-000175
90-000190
90-000279
90-000475
90-003683
Gilquinia
90-004187

...CONTINUED...
Elasmobranchii
Heart
90-000206
90-000215
Hormones
90-000258
Management/Research--Marine
90-003856
Morphology
90-000279
90-000475
Otoconia
90-001716
Parasites/Diseases
90-004187
90-004224
Photoreception
90-000167
Physiology
90-000279
90-000475
Reproduction
90-000258
Reproductive System
90-000175
Stock Assessment
90-003856
Treatment
90-004224
Trematodes
90-004224
Variation Studies
90-001716
Vision
90-000167
Elassoma zonatum
Habitat Selection
90-006579
Management/Research--Rivers and Streams
90-006579
Population Studies
90-006579
Electrona antarctica
Early Development
90-003939
Foods/Feeding
90-002257
90-003939
Electrona carlsbergi
Foods/Feeding
90-002257
Eleginus gracilis
Age/Growth
90-003089
Bioenergetics
90-003089
Culture/Propagation
90-003089
Food Conversion Efficiency
90-003089
Eleotridae
Lateral Line System
90-001739
Seismosensory System
90-001739
Eleotris picta
Distribution/Geographical
90-005834
Elops affinis
Predator/Prey Relationships
90-002266

Embiotoca jacksoni
Competition
90-002101
90-005573
Foods/Feeding
90-002094
90-002101
Habitat Selection
90-006701
Interspecies Relationships
90-002101
90-005573
Kelp Forests
90-006701
Management/Research--Marine
90-002101
Microhabitat
90-005573
Niche Overlaps
90-002101
90-005573
Reef Fish Communities
90-002101
Embiotoca lateralis
Competition
90-002101
90-005573
Foods/Feeding
90-001689
90-002101
Habitat Selection
90-006701
Interspecies Relationships
90-002101
90-005573
Jaws
90-001689
Kelp Forests
90-006701
Management/Research--Marine
90-002101
Microhabitat
90-005573
Niche Overlaps
90-002101
90-005573
Osteology
90-001689
Reef Fish Communities
90-002101
Emblemaria piratula
Population Studies
90-005677
Embolichthys mitsukurii
Osteology
90-001719
Variation Studies
90-001719
Engraulidae
Currents
90-005108
Gear Efficiency
90-004533
Ichthyoplankton
90-002168
Larval Fish
90-006412
Management/Research--Marine
90-002168
Mangroves
90-002168

...CONTINUED...

Engraulidae
Nets/Trawls
90-006412
Nursery Areas
90-002168
Recruitment
90-002168
Reproductive Cycle
90-002168
Spawning
90-005108
Temperature
90-005108
Thermocline
90-005108
Engraulis
Length Frequencies
90-006452
Engraulis anchoita
Biomass
90-004738
Fish Preservation
90-004822
Foods/Feeding
90-003937
Management/Research--Marine
90-004738
Population Studies
90-004738
Storage Effects
90-004822
Engraulis capensis
Acoustical Methods
90-006759
Carbon
90-000292
Culture/Propagation
90-000291
Diets
90-000291
Digestive System
90-000291
Enzymes
90-000291
Foods/Feeding
90-000292
90-000505
90-000629
Invertebrate Forage
90-000291
Life History/General
90-005592
Nitrogen
90-000291
90-000292
Nutrition
90-000292
Respiration
90-000505
Stock Assessment
90-006759
Swimming Performance
90-000505
Engraulis encrasicholus
Abundance/Factors of
90-002762
Age/Growth
90-005807
Egg Survival
90-000699
Fecundity
90-003890

...CONTINUED...
Engraulis encrasicholus
Forecasting
90-006493
Harvest
90-005807
Length-Weight Relationships
90-005807
Management/Research--Marine
90-002762
90-005807
Mortality Rates
90-000699
Population Studies
90-005807
Production
90-005807
Reproductive Cycle
90-003890
Season
90-006493
Engraulis encrasicolus maeotics
Bioenergetics
90-003732
Migration
90-003732
Swimming Performance
90-003732
Engraulis japonica
Buoyancy Control
90-003572
Catch Per Unit Effort
90-002748
Circadian Rhythms
90-003401
Distribution/Factors of
90-003923
Distribution/Seasonal
90-003923
Eggs
90-003572
Fish Behavior
90-002748
Gear Efficiency
90-002748
Harvest
90-006403
Larval Fish
90-002748
Light
90-003401
Modeling
90-002748
Phototropism
90-003401
Salinity
90-003923
Temperature
90-003923
Vision
90-003401
Engraulis mordax
Abundance/Factors of
90-002775
90-004767
90-004768
Age/Growth
90-003827
90-003979
90-004751
90-005362
Biomass
90-004767

...CONTINUED...
Engraulis mordax
Catch-Age Analysis
90-004751
Commercial Fishing
90-001364
Condition Factors
90-003266
Culture/Propagation
90-003458
Currents
90-003827
Digestive System
90-003266
Distribution/Factors of
90-004768
Early Development
90-003266
90-003827
90-003979
El Nino
90-003979
Enzymes
90-001906
Fertilization
90-003458
Fish Behavior
90-001364
Food Supply
90-003979
Habitat Selection
90-001364
90-004768
Harvest
90-004728
90-004751
90-004767
Larval Drift
90-002775
90-004061
Length Frequencies
90-004751
Life History/General
90-003827
Mammal Predation
90-005868
Management/Research--Estuaries
90-001362
Management/Research--Marine
90-001364
90-004728
90-004751
90-004767
90-004768
Modeling
90-002775
Morphometry
90-003662
Mortality Factors
90-004061
Mortality Rates
90-003827
90-004051
90-004061
Nervous System
90-001906
Optimum Sustainable Yield
90-004768
pH
90-001906
Population Genetics
90-003662

...CONTINUED...
Engraulis mordax
Population Studies
90-001362
90-001364
90-004768
Predator/Prey Relationships
90-003958
Recruitment
90-004768
Regulations/Size Limits
90-004751
Spawning
90-004767
Sperm
90-003458
Starvation
90-005362
Stock Assessment
90-004751
Survival
90-003827
90-004061
90-005362
Swimming Performance
90-001906
Variation Studies
90-003662
Water Quality
90-001362
Wind
90-004061
Engraulis ringens
Egg Survival
90-004056
Recruitment
90-005657
Engyprosopon arenicola
Morphology
90-002348
Taxonomy
90-002348
Engyprosopon macrolepis
Distribution/Geographical
90-005842
Morphology
90-005842
Taxonomy
90-005842
Engyprosopon regani
Morphology
90-002348
New Species
90-002348
Taxonomy
90-002348
Enneacanthus
Morphology
90-000707
Osteology
90-000707
Taxonomy
90-000707
Enneacanthus chaetodon
Distribution/Factors of
90-000271
pH
90-000271
Enneacanthus gloriosus
Competition
90-002099
Distribution/Factors of
90-000271

...CONTINUED...
Enneacanthus gloriosus
Interspecies Relationships
90-002099
Osmoregulation
90-002099
pH
90-000271
90-002099
Pollution
90-002099
Enneacanthus obesus
Acidification
90-000270
Competition
90-002099
Distribution/Factors of
90-000271
Extracellular Fluid Volume
90-000270
Interspecies Relationships
90-002099
Osmoregulation
90-000270
90-002099
pH
90-000270
90-000271
90-002099
Pollution
90-002099
Sodium
90-000270
Eopsetta grigorjewi
Harvest
90-001389
Management/Research--Marine
90-001389
Population Studies
90-001389
Stock Assessment
90-001389
Epibulus insidiator
Evolution
90-000210
Foods/Feeding
90-000210
Head
90-000210
Mouth Parts
90-000210
Mouth Size
90-000210
Epigonus elegans
Foods/Feeding
90-002235
Epigonus telescopus
Digestive System
90-000263
Enzymes
90-000263
Temperature
90-000263
Epinephalus quoyanus
Cestodes
90-002455
Grillotia heroniensis
90-002455
Parasites/Diseases
90-002455
Epinephelus
Harvest
90-004481

...CONTINUED...
Epinephelus
  Heavy Metals
    90-004386
  Lead
    90-004386
  Management/Research--Marine
    90-004481
  Storage Effects
    90-006741
Epinephelus adscensionis
  Agonistic Behavior
    90-005575
Epinephelus akaara
  Bacterial Diseases
    90-004135
  Bacterial Flora
    90-000393
    90-005388
  Brain
    90-005332
  Corticosteroids
    90-005332
  Culture/Propagation
    90-005009
  Digestive System
    90-000393
    90-005388
  Early Development
    90-000393
    90-005388
  Parasites/Diseases
    90-004135
  Pasteurella piscicida
    90-004135
  Peptides
    90-005332
Epinephelus alexandrinus
  Migration
    90-003795
  Orientation/Homing
    90-003795
Epinephelus argus
  Coexistence
    90-002128
  Interspecies Relationships
    90-002128
Epinephelus chlorostigma
  Biological Monitoring
    90-006054
  Heavy Metals
    90-006054
Epinephelus flavolimbatus
  Burrowing Behavior
    90-000507
  Habitat Selection
    90-000507
Epinephelus guaza
  Movements
    90-003736
  Social Behavior
    90-003736
Epinephelus hemistictus
  Coexistence
    90-002128
  Interspecies Relationships
    90-002128
Epinephelus merra
  Hematology
    90-005410
  Oxygen
    90-005410
Epinephelus microdon
  Age/Growth
    90-003980
  Marking/Tagging
    90-003980
  Otoliths
    90-003980
Epinephelus mineatus
  Coexistence
    90-002128
  Interspecies Relationships
    90-002128
Epinephelus oligosticta
  Coexistence
    90-002128
  Interspecies Relationships
    90-002128
Epinephelus salmoides
  Culture/Propagation
    90-004967
  Parasites/Diseases
    90-004967
  Vaccination
    90-004967
  Vibriosis
    90-004967
Epinephelus sexmaculata
  Coexistence
    90-002128
  Interspecies Relationships
    90-002128
Epinephelus suborbitalis
  Morphology
    90-004062
  New Species
    90-004062
Epinephelus tauvina
  Culture/Propagation
    90-003098
    90-003130
  Feeds
    90-003130
  Fish Silage
    90-003130
  Induced Maturation
    90-003098
  Larvae
    90-003098
    90-003130
Eptatretus
  Immune Response
    90-005474
  Variation Studies
    90-005474
Eptatretus burgeri
  Collagen
    90-001882
  Variation Studies
    90-001882
Eptatretus cirrhatus
  Exercise
    90-003350
  Hematology
    90-003350
  Lactic Acid
    90-003350
  Metabolic Rates
    90-005250
Eptatretus stouti
  Brain
    90-000395

...CONTINUED...
Eptatretus stouti
Brain
90-003354
Commercial Fishing
90-006696
Endocrinology
90-000395
90-001846
90-003354
Insulin
90-000395
Management/Research--Marine
90-006696
Peptides
90-003354
Sex Determination
90-001846
Ericymba buccata
Acid Mine Water
90-000812
Evolution
90-003652
Management/Research--Rivers and Streams
90-000812
Pollution
90-000812
Erimyzon oblongus
Coexistence
90-003779
Courtship
90-003779
Spawning
90-003779
Territorial Behavior
90-003779
Erimyzon sucetta
Temperature
90-002116
Temperature Selection
90-002116
Esomus danrica
Early Development
90-000359
Gills
90-000359
Respiration
90-000359
Esox lucius
Abundance/Factors of
90-002856
90-004513
90-004634
90-006514
Acidification
90-004712
Activity Patterns
90-001140
Age/Growth
90-005808
90-005823
Air Pollution
90-004257
Alpine Streams
90-001228
Arctic Habitat
90-002230
Behavior
90-006100
Bioaccumulation
90-002654

...CONTINUED...
Esox lucius
Bioaccumulation
90-004339
90-004342
90-006235
Bioenergetics
90-006484
Biological Monitoring
90-000811
90-004262
90-006073
Biosorption
90-000811
90-000847
90-004257
90-004262
90-006177
90-006178
Boat Turbidity
90-006329
Brood Stock
90-001522
Cadmium
90-004236
90-006177
90-006178
Canals
90-006329
Cestodes
90-002453
Commercial Fishing
90-004680
Competition
90-004681
Condition Factors
90-004599
Culture/Propagation
90-001522
90-001625
90-005189
Dibenzofuran
90-006073
Digestive System
90-000305
Dioxin
90-006073
Early Development
90-002175
90-005823
Eggs
90-005374
Eimeria esoci
90-000764
Embryology
90-005374
Enzymes
90-000305
90-005374
Escape Behavior
90-003751
Evolution
90-000173
Exotic Species
90-004513
90-004681
Exploitation Rates
90-006455
Fecundity
90-002211
Fish Control/Removal
90-006512

...CONTINUED...
Esox lucius
Fish Control/Removal
90-006544
Fish Preservation
90-006772
Fishing Tournaments
90-002843
Food Supply
90-005749
Foods/Feeding
90-000632
90-004681
90-005749
90-005823
Gill Parasites
90-000792
Gravel Pits
90-002175
Habitat Alterations
90-002856
Habitat Selection
90-001140
Hatching
90-001625
Head
90-000173
Heavy Metals
90-000847
90-002654
90-004236
90-004262
90-004339
90-004342
90-006100
90-006177
90-006178
90-006235
Histology
90-002211
Hybrid Identification
90-005460
Hybridization
90-000655
90-005460
Illegal Harvest
90-006455
Impoundment
90-004681
Induced Maturation
90-005189
Industrial Wastes
90-006073
Interspecies Relationships
90-001140
Lead
90-004236
Length-Weight Relationships
90-004599
Life History/General
90-000534
90-001228
Management/Research--General
90-002230
Management/Research--Lakes
90-000847
90-001140
90-002175
90-002843
90-002855
90-002856
90-004257

...CONTINUED...
Esox lucius
Management/Research--Lakes
90-004618
90-005913
90-006512
90-006514
90-006518
90-006523
90-006544
90-006545
Management/Research--Ponds
90-006484
Management/Research--Rivers and Streams
90-001228
90-004513
90-004681
90-006329
Marking/Tagging
90-003902
90-004493
Maturation
90-002211
Mercury
90-000847
90-002654
90-004236
90-004257
90-004339
90-006100
90-006235
Metal Smelters
90-004342
Methyl Mercury
90-002654
Mine Effluents
90-004401
Morphometry
90-000173
Movements
90-003902
Nutrients
90-002855
Osteology
90-000173
Overwintering
90-002230
Parasites/Diseases
90-000764
90-000792
90-005913
Pituitary Gland
90-005189
Playas
90-004618
Pollution
90-004257
Pollution Abatement
90-000847
Pollution Detection
90-004262
Population Studies
90-000951
90-002175
90-002856
90-004599
90-006518
Predator Introductions
90-004513
Predator/Prey Relationships
90-000632

...CONTINUED...
Esox lucius
Predator/Prey Relationships
90-000655
90-003936
90-005546
90-005580
90-005749
90-006484
Proportional Stock Density
90-004599
Protozoan Diseases
90-000764
Recreational Benefits
90-006455
Recruitment
90-002175
90-004712
90-006484
90-006514
Regulations/Catch and Release
90-006455
Regulations/Size Limits
90-006455
Reproduction
90-001522
90-002211
Reproductive Cycle
90-002211
Riparian Habitat
90-001228
Scales
90-005808
Season
90-000305
90-005749
Sediment Bioassays
90-006073
Selenium
90-000847
Ship Canals
90-006329
Sportfishing
90-002230
90-002843
Stocking/Introductions
90-002855
90-004513
90-006503
90-006512
90-006519
90-006523
90-006530
90-006545
Storage Effects
90-006772
Stream Improvement/General
90-001228
Strontium
90-000811
Survival
90-001522
Swimming Performance
90-003751
90-003764
Tetraonchus monenteron
90-000792
Trematodes
90-000792
Triaenophorus crassus
90-002453
Triaenophorus nodulosus
90-002453

...CONTINUED...
Esox lucius
Trophic Relationships
90-000811
90-002855
90-002856
90-004513
90-004618
90-006484
90-006503
90-006512
90-006514
90-006518
90-006519
90-006523
90-006530
90-006544
90-006545
Uranium
90-004401
Variation Studies
90-000173
Water Quality
90-002855
90-004634
Wetlands
90-000951
90-002230
Yield
90-004634
Esox masquinongy
Digestive System
90-005271
Feeds
90-005271
Fishing Tournaments
90-002843
Hybridization
90-000655
Management/Research--Lakes
90-002843
Migration
90-005516
Orientation/Homing
90-005516
Predator/Prey Relationships
90-000655
Spawning
90-005516
Sportfishing
90-002843
Esox niger
Hybrid Identification
90-005460
Hybridization
90-005460
Population Studies
90-005831
Wetlands
90-004464
Esox reicherti
Evolution
90-000173
Head
90-000173
Morphometry
90-000173
Osteology
90-000173
Variation Studies
90-000173
Esselenia
New Genus
90-002346

...CONTINUED...
Esselenia
Osteology
90-002346
Esselenia carli
New Species
90-002346
Osteology
90-002346
Esselenia laurae
New Species
90-002346
Osteology
90-002346
Etelis carbunculus
Distribution/Vertical
90-003941
Foods/Feeding
90-003941
Trophic Relationships
90-003941
Etelis coruscans
Distribution/Vertical
90-003941
Foods/Feeding
90-003941
Trophic Relationships
90-003941
Etheostoma
Age/Growth
90-005628
DNA
90-005498
Early Development
90-002362
Latitude
90-005628
Life History/General
90-002362
90-005628
Reproduction
90-005628
Taxonomy
90-000709
90-002362
Variation Studies
90-005628
Etheostoma bellum
Life History/General
90-003810
Etheostoma blennioides
Activity Patterns
90-005154
90-005574
Age/Growth
90-005154
Eyes
90-005154
Foods/Feeding
90-005154
Photoperiodism
90-005154
90-005574
Vision
90-005154
Etheostoma caeruleum
Foods/Feeding
90-002280
Habitat Selection
90-000437
Hybridization
90-000437
...CONTINUED...
Etheostoma caeruleum
Life History/General
90-000549
Morphology
90-000437
Variation Studies
90-000437
Etheostoma collettei
Population Genetics
90-005466
Variation Studies
90-005466
Etheostoma exile
Beaver Ponds
90-004686
Etheostoma flabellare
Fins
90-000597
Habitat Selection
90-006598
Mate Selection
90-000597
Etheostoma jordani
Reproduction
90-002204
Spawning
90-002204
Etheostoma microperca
Foods/Feeding
90-000652
Season
90-000652
Etheostoma nigrum
Ammonia
90-000897
Ichthyoplankton
90-002824
Nursery Areas
90-002824
Temperature
90-000897
Toxicity Testing
90-000897
Etheostoma olmstedi
Hybridization
90-003699
Meristic Studies
90-003699
Population Studies
90-005831
Etheostoma podostemone
Habitat Selection
90-006598
Etheostoma punctulatum
Early Development
90-005161
Eggs
90-005161
Etheostoma pyrrhogaster
Life History/General
90-003805
Etheostoma radiosum
Distribution/Factors of
90-002308
Distribution/Geographical
90-002308
Foods/Feeding
90-003947
Habitat Selection
90-002308
Oxygen
90-002308

Etheostoma rafinesquei
Spawning
90-005587
Spawning Substrates
90-005587
Etheostoma spectabile
Distribution/Factors of
90-002308
Distribution/Geographical
90-002308
Foods/Feeding
90-002280
Habitat Selection
90-000437
90-002308
Hybridization
90-000437
Morphology
90-000437
Oxygen
90-002308
Variation Studies
90-000437
Etheostoma tippecanoe
Distribution/Geographical
90-005832
Etheostoma wapiti
Morphology
90-000709
New Species
90-000709
Taxonomy
90-000709
Etheostoma whipplei
Population Genetics
90-005466
Variation Studies
90-005466
Etheostoma zonale
Hybridization
90-003699
Meristic Studies
90-003699
Etheostoma zonistium
Life History/General
90-003805
Ethmalosa
Brackishwater Culture
90-003051
Culture/Propagation
90-003051
Mangroves
90-003051
Site Suitability
90-003051
Ethmalosa fimbriata
Abundance/Factors of
90-002223
Distribution/Seasonal
90-002223
Gear Selectivity
90-001006
Management/Research--Marine
90-002223
Nets/Gill Nets
90-001006
Nets/Netting
90-001006
Etmopterus campagnoi
Meristic Studies
90-005880

...CONTINUED...
Etmopterus campagnoi
New Species
90-005880
Etmopterus molleri
Distribution/Geographical
90-004042
Etmopterus princeps
Digestive System
90-000263
Enzymes
90-000263
Temperature
90-000263
Etmopterus spinax
Life History/General
90-003804
Population Studies
90-003804
Etroplus maculatus
Aquariums
90-001608
Courtship
90-001608
Culture/Propagation
90-001608
Gill Diseases
90-002424
Parasites/Diseases
90-002424
Parental Behavior
90-001608
Spawning
90-001608
Viral Diseases
90-002424
Etroplus suratensis
Commercial Fishing
90-004689
Competition
90-004689
Management/Research--Reservoirs
90-004689
Population Studies
90-004689
Etrumeus teres
Abundance/Factors of
90-005637
Distribution/Seasonal
90-005637
Early Development
90-005637
Life History/General
90-005637
Eucinostomus
Management/Research--Estuaries
90-006666
Population Studies
90-006666
Eurypharynx pelecanoides
Life History/General
90-000555
Euthynnus alletteratus
Coexistence
90-004755
Distribution/Seasonal
90-004755
Musculature
90-003247
Swimming Performance
90-003247
Euthynnus lineatus
Predator/Prey Relationships
90-002266

Euthynnus pelamis
Age/Growth
90-000671
90-005140
Bacterial Diseases
90-004116
Carcass Traits
90-006744
Coexistence
90-004755
Distribution/Seasonal
90-004755
Distribution/Vertical
90-003903
Early Development
90-003975
Electrophoresis
90-000693
Fin Rays
90-000671
Foods/Feeding
90-003975
Goussia auxidis
90-004116
Larval Behavior
90-003903
Mark/Recapture
90-004563
Marking/Tagging
90-004563
Movements
90-004563
Musculature
90-003247
90-006744
Osteology
90-005140
Parasites/Diseases
90-004116
Rhythmicity
90-003903
Stock Identification
90-000693
Swimming Performance
90-003247
Variation Studies
90-000693
Zoogeography
90-000693
Eviota
Gonads
90-005125
Hermaphroditism
90-005125
Variation Studies
90-005125
Exocoetus obtusirostris
Fecundity
90-002177
Maturation
90-002177
Spawning
90-002177
Exocoetus volitans
Fecundity
90-002177
Maturation
90-002177
Spawning
90-002177
Exoglossum
Nests/Nesting
90-000506

Exoglossum
Sexual Dimorphism
90-000506
Fistularia petimba
Predator/Prey Relationships
90-002266
Floridichthys carpio
Evolution
90-000340
Osmoregulation
90-000340
Salinity
90-000340
Variation Studies
90-001667
Forcipiger flavissimus
Abundance/Factors of
90-005658
Distribution/Factors of
90-005658
Reef Fish Communities
90-005658
Fugu niphobles
Bacterial Flora
90-001913
90-003473
Culture/Propagation
90-003473
Exercise
90-002018
Ichthyotoxin
90-001913
90-003473
Spleen
90-002018
Tetrodotoxin
90-003473
Fugu rubripes
Bacterial Flora
90-000393
90-003473
90-005388
Culture/Propagation
90-003473
Digestive System
90-000393
90-005388
Early Development
90-000393
90-005388
Harvest
90-006403
Ichthyotoxin
90-003473
90-005369
Tetrodotoxin
90-003473
Fundulus catenatus
Allozymes
90-003654
Evolution
90-003654
Variation Studies
90-003654
Zoogeography
90-003654
Fundulus diaphanus
Beaver Ponds
90-004686
Gynogenesis
90-003638

...CONTINUED...
Fundulus diaphanus
Habitat Improvement/General
90-004695
Hybrid Identification
90-003637
90-003638
Hybridization
90-002043
90-003637
90-003638
Karyotypes
90-003637
Management/Research--Estuaries
90-004695
Polyploidy
90-003637
Unisex Populations
90-002043
90-003637
90-003638
Wetlands
90-004695
Fundulus grandis
Age/Growth
90-005006
Biochemical Composition
90-000443
90-005447
Culture/Propagation
90-005006
Electrophoresis
90-000443
Food Supply
90-005774
Foods/Feeding
90-005774
Fry Production
90-005006
Isozymes
90-005447
Lunar Influences
90-002102
Management/Research--Estuaries
90-005774
Marshes, Salt
90-005774
Population Genetics
90-000443
Reproduction
90-002102
Salinity
90-005006
Spawning
90-002102
Survival
90-005006
Taxonomy
90-000443
Variation Studies
90-005447
Fundulus grandis grandis
Biochemical Composition
90-000443
Electrophoresis
90-000443
Population Genetics
90-000443
Taxonomy
90-000443
Fundulus grandis saguanus
Biochemical Composition
90-000443
...CONTINUED...
Fundulus grandis saguanus
Biochemical Composition
90-005447
Electrophoresis
90-000443
Isozymes
90-005447
Population Genetics
90-000443
Taxonomy
90-000443
Variation Studies
90-001667
90-005447
Fundulus heteroclitus
Age/Growth
90-005795
Ammonia
90-000916
90-002577
90-002651
Anilines
90-002577
Benzidine
90-002577
Biochemical Composition
90-000443
90-005447
Bird Predation
90-000511
Brain
90-003523
Cadmium
90-002577
Chloride Cells
90-005420
Chlorophenols
90-002577
Copper
90-002577
90-006202
Cortisol
90-000916
90-002651
Detritus
90-003932
Diflubenzuron
90-000894
DNA
90-002038
90-005457
Eggs
90-003421
Electrophoresis
90-000443
Electroshock
90-003496
Endocrinology
90-000352
90-001946
Enzymes
90-001946
90-003338
90-005483
Evolution
90-002041
Exercise
90-000250
Fenoxycarb
90-000894
Foods/Feeding
90-003932

...CONTINUED...
Fundulus heteroclitus
Gonadotropin
90-001946
Gynogenesis
90-003638
Habitat Improvement/General
90-004695
Habitat Selection
90-000511
Heavy Metals
90-002577
90-006202
Hematology
90-002651
Hybrid Identification
90-003637
90-003638
Hybridization
90-002043
90-003637
90-003638
Insecticides
90-000894
Ion Transport
90-005420
Islands
90-004687
Isozymes
90-005447
Karyotypes
90-003637
Lactate Dehydrogenase
90-002041
90-003338
Latitude
90-005795
Light
90-001994
Lunar Influences
90-001994
90-002102
Management/Research--Estuaries
90-003932
90-004695
Management/Research--Ponds
90-004687
Methoprene
90-000894
Methylene Chloride
90-002577
Mitochondria
90-005457
Mosquito Control
90-000894
Navigation Projects
90-003496
Neoplasms
90-002442
Osmoregulation
90-001845
90-005420
Parasites/Diseases
90-002442
Peptides
90-003523
pH
90-001845
Photoperiodism
90-001994
Pituitary Gland
90-001946

...CONTINUED...
Fundulus heteroclitus
Polycyclic Aromatic Hydrocarbons
90-002442
Polyploidy
90-003637
Population Genetics
90-000443
90-002038
Population Studies
90-004687
Predator/Prey Relationships
90-000511
Protein Synthesis
90-001946
Radiation
90-003496
Reproduction
90-002102
Respiratory System
90-006202
Salinity
90-000916
90-001845
Season
90-005795
Spawning
90-001994
90-002102
Steroids
90-000352
90-001946
Stress
90-002651
Taxonomy
90-000443
Temephos
90-000894
Trophic Relationships
90-003932
Unisex Populations
90-002043
90-003637
90-003638
Variation Studies
90-002038
90-003338
90-005447
90-005483
Vitellogenin
90-003421
Wetlands
90-004695
Zinc
90-002577
Zoogeography
90-003338
90-005457
90-005483
Fundulus heteroclitus heteroclitus
DNA
90-005487
Mitochondria
90-005487
Population Genetics
90-005487
Variation Studies
90-005487
Fundulus heteroclitus macrolepidotus
DNA
90-005487
Mitochondria
90-005487

...CONTINUED...
Fundulus heteroclitus macrolepidotus
Population Genetics
90-005487
Variation Studies
90-005487
Fundulus kansae
Actomyosins
90-003499
Gills
90-001925
90-003499
Hormones
90-001925
Hypothalamic-Hypophysial System
90-001925
Metabolism
90-003499
Osmoregulation
90-003499
RNA
90-001925
90-003499
Salinity
90-001925
Sodium
90-003499
Fundulus majalis
Habitat Improvement/General
90-004695
Islands
90-004687
Management/Research--Estuaries
90-004695
Management/Research--Ponds
90-004687
Population Studies
90-004687
Wetlands
90-004695
Fundulus notatus
Coexistence
90-004659
Management/Research--Rivers and Streams
90-004659
Population Studies
90-004659
Fundulus similis
Variation Studies
90-001667
Fundulus zebrinus
Management/Research--Rivers and Streams
90-006615
Population Genetics
90-006615
Population Studies
90-006615
Sampling
90-006615
Furgaleus macki
Calliobothrium pritchardae
90-004194
Cestodes
90-004194
Commercial Fishing
90-001392
Parasites/Diseases
90-004194
Fusigobius
Gonads
90-005125

...CONTINUED...
Fusigobius
Hermaphroditism
90-005125
Variation Studies
90-005125
Gadidae
Abundance/Factors of
90-004057
Bioaccumulation
90-006107
Dibenzofuran
90-006107
Dioxin
90-006107
Exploitation Rates
90-004476
Hooking/Handling Mortality
90-004532
Hooking/Handling Stress
90-004532
Management/Research--Marine
90-004057
90-004476
Nets/Codends
90-004532
Nets/Trawls
90-004532
Population Studies
90-004476
Public Health Problems
90-006107
Recruitment
90-004057
Salinity
90-004057
Temperature
90-004057
Gadopsis bispinosus
Distribution/Geographical
90-004030
Gadopsis marmoratus
Flow Regimes
90-001266
Habitat Evaluation
90-001266
Management/Research--Rivers and Streams
90-001266
Myxobolus gadopsii
90-005967
Parasites/Diseases
90-005967
Protozoan Diseases
90-005967
Gadus macrocephalus
Age/Growth
90-002808
90-003965
Bioenergetics
90-003558
90-003965
Condition Factors
90-003558
Economics
90-004491
Evacuation
90-003965
Foods/Feeding
90-003965
Groundfish
90-004491

...CONTINUED...
Gadus macrocephalus
Law of the Sea
90-004491
Liver
90-003558
Management/Research--Marine
90-004491
Marketing
90-004491
Population Studies
90-002808
Reproduction
90-003558
Spawning
90-003558
von Bertalanffy Growth Function
90-002808
Gadus morhua
Abundance/Factors of
90-001371
90-003849
90-003910
90-004260
90-005859
90-006712
Acanthocephala
90-005899
Acoustical Methods
90-000988
90-003505
Activity Patterns
90-005538
Age/Growth
90-000662
90-000667
90-000669
90-001066
90-004004
90-004006
90-005711
90-005801
Anesthetics
90-001915
Aromatic Hydrocarbons
90-006158
Baits/Baiting
90-004526
90-006407
Behavior
90-006404
Bioaccumulation
90-002546
90-006064
90-006156
90-006158
Biochemical Composition
90-000450
Biological Monitoring
90-000840
Biomass
90-004813
Biosorption
90-002558
90-006475
Bird Predation
90-005859
Blood Pressure
90-005252
Calcium
90-003566
Catch Per Unit Effort
90-001066

...CONTINUED...
Gadus morhua
Catch Per Unit Effort
90-001402
90-006693
Cesium
90-006064
Chlorinated Hydrocarbons
90-002558
Chlorine
90-000400
Chromosomes
90-005450
Climate
90-001371
Cohort Analysis
90-001066
Commercial Fishing
90-001402
90-004553
Competition
90-000662
Copper
90-006475
Culture/Propagation
90-000088
90-000094
90-000112
90-000123
90-001915
90-003006
90-003095
90-003102
90-003777
90-005742
Currents
90-001371
90-001402
Dibenzofuran
90-006156
90-006158
Diets
90-000088
90-000094
90-000112
90-000123
Digestive System
90-003566
Dioxin
90-006156
90-006158
Disease Susceptibility
90-002502
Distribution/Factors of
90-000618
DNA
90-003636
Early Development
90-000400
90-000530
90-004006
Echinorhynchus gadi
90-005899
Echo Sounder
90-004847
Egg Drift
90-003910
Egg Identification
90-006767
Egg Production
90-003102
Electrophoresis
90-000693

...CONTINUED...
Gadus morhua
Electrophoresis
90-003471
Endocrinology
90-003566
Environmental Impacts
90-003005
90-003006
Enzymes
90-000266
90-003385
90-003636
90-005352
Escape Behavior
90-002103
Eutrophication
90-004260
Exploitation Rates
90-001403
Eyes
90-003407
Fatty Acids
90-000313
Feeds
90-000088
90-000112
90-000123
Fish Attractants
90-006407
Fish Preservation
90-001428
90-006750
Food Supply
90-000618
90-000662
90-001371
Food Technology
90-001428
90-006750
Foods/Feeding
90-000662
90-005786
90-006368
90-006407
Forecasting
90-001402
Fright Behavior
90-002103
Fry Production
90-003102
Gear Efficiency
90-006402
90-006404
Gear Selectivity
90-001403
90-004526
Genetic Markers
90-003006
Groundfish
90-004589
90-006681
Harvest
90-004260
90-004553
Hatchery/Wild Populations
90-003005
90-003006
90-003095
90-003777
90-005742
90-006385

...CONTINUED...
Gadus morhua
Hatchery/Wild Populations
90-006390
90-006391
Heart
90-005252
Heavy Metals
90-002546
90-006475
Hematology
90-000313
90-000449
Hooks
90-006404
Hypoxia
90-004260
90-005252
Ice
90-006693
Intraspecies Relationships
90-006385
Larvae
90-000088
90-000112
90-003102
Larval Behavior
90-000530
90-000617
Larval Drift
90-003910
Laws/Law Enforcement
90-006681
Light
90-002103
90-005538
Lipid Metabolism
90-000313
Longlines
90-004526
90-006404
Magnesium
90-006156
Mammal Predation
90-000647
90-004863
Management/Research--Estuaries
90-004698
Management/Research--Marine
90-001402
90-001403
90-003095
90-004052
90-004260
90-004553
90-004589
90-004813
90-006391
90-006681
90-006693
90-006712
Mark/Recapture
90-000988
Marking/Tagging
90-000988
90-003909
90-006368
Maturation
90-003877
90-005711
Mercury
90-006475

...CONTINUED...
Gadus morhua
Migration
90-000450
90-003909
90-005538
90-005576
90-005742
Mitochondria
90-003636
Mortality Rates
90-001066
90-004591
90-006390
Movements
90-000617
Muscle Proteins
90-000265
90-002964
90-003471
90-004863
Musculature
90-000265
90-002964
Natural Selection
90-001403
Nematodes
90-000787
Nets/Trawls
90-004589
90-004865
90-006402
Nursery Areas
90-004006
90-004697
90-004698
Nutrition
90-000094
90-000112
90-000123
Oil Pollution
90-002502
Otolith Preparation
90-004004
90-005801
Otoliths
90-000669
90-005801
Overwintering
90-004698
Parasites/Diseases
90-000787
90-002502
90-004251
90-005899
90-005970
Pigments
90-003407
Pollution
90-004251
90-004260
90-006064
Polychlorinated Biphenyls
90-006158
Population Genetics
90-000449
90-000450
Population Studies
90-000988
90-001371
90-001403
90-003909

...CONTINUED...
Gadus morhua
Population Studies
90-004052
90-004558
90-004589
Predator/Prey Relationships
90-000647
90-003769
90-003777
Protein Metabolism
90-003385
Protein Synthesis
90-000094
Protozoan Diseases
90-005970
Pseudoterranova decipiens
90-000787
Radiation
90-006064
Recruitment
90-003849
90-004052
90-005859
90-006391
90-006712
Recruitment Curves
90-001086
Regulations/Catch Limits
90-006681
Reproductive Cycle
90-003877
Samplers/Larval Fish
90-004865
Sampling
90-004553
90-004589
90-004865
Season
90-000667
90-003505
90-003910
Sediment Bioassays
90-002558
Sodium
90-000400
Spawning
90-000988
90-003877
Species Identification
90-004863
Spironucleus torosa
90-005970
Stock Assessment
90-000988
Stock Identification
90-000693
Storage Effects
90-001428
90-002964
Strontium
90-006064
Stunting
90-000669
90-004006
Supplemental Stocking
90-003095
90-005576
90-006385
90-006391
Survival
90-003849

...CONTINUED...
Gadus morhua
Survival
90-006390
90-006391
Swimbladder
90-003505
Swimming Performance
90-000530
Tank Culture
90-000088
Telemetry
90-006368
Temperature
90-000313
90-000618
90-000667
90-002964
90-004052
90-005352
Time Series Analysis
90-001066
90-001086
Toxicology
90-006475
Trace Metals
90-002546
Trophic Relationships
90-006712
Variation Studies
90-000449
90-000450
90-000693
Vertebral Counts
90-000204
Vitamins
90-003566
Year Class Strength
90-001371
90-003849
Zinc
90-006475
Zoogeography
90-000693
Gadus morhua marisalbi
Buoyancy Control
90-001999
Egg Composition
90-001999
Eggs
90-001999
Gadus morhua morhua
Distribution/Geographical
90-004797
Predator/Prey Relationships
90-003978
Gagata cenia
Fecundity
90-000594
Galaxias fasciatus
Foods/Feeding
90-000640
Galaxias maculatus
Exercise
90-000250
Galaxias olidus
Competition
90-006580
Distribution/Geographical
90-006580
Myxobolus galaxii
90-005967
...CONTINUED...
Galaxias olidus
Parasites/Diseases
90-005967
Protozoan Diseases
90-005967
Galaxias platei
Helminths
90-006032
Parasites/Diseases
90-006032
Galaxias truttaceus
Landlocked Populations
90-003222
Variation Studies
90-003222
Galeichthys ater
Foods/Feeding
90-005780
Galeichthys caerulescens
Management/Research--Estuaries
90-006666
Population Studies
90-006666
Galeichthys feliceps
Foods/Feeding
90-005780
Galeocerdo
Electrophoresis
90-002059
Taxonomy
90-002059
Galeocerdo cuvieri
Amino Acids
90-001768
Enzymes
90-001768
Hematology
90-001768
Galeorhinus galeus
Distribution/Seasonal
90-004741
Exploitation Rates
90-004741
Management/Research--Marine
90-004741
Galeorhinus vitaminicus
Catch Per Unit Effort
90-004484
Commercial Fishing
90-004484
Harvest
90-004484
Longlines
90-004484
Management/Research--Marine
90-004484
Galeus melastomus
Life History/General
90-003804
Population Studies
90-003804
Gambusia
Foods/Feeding
90-005759
Molluscs
90-005759
Gambusia affinis
Algae
90-006186
Allozymes
90-003725

...CONTINUED...
Gambusia affinis
Arsenic
90-000889
Bioaccumulation
90-002608
90-002656
Biomagnification
90-000896
Bird Predation
90-000889
Boron
90-000889
Coexistence
90-004659
Deltamethrin
90-002656
Enzymes
90-003725
Foods/Feeding
90-003954
Grazing
90-002707
Heavy Metals
90-000896
Histology
90-000288
90-001643
Hybridization
90-003725
Ichthyophthirius multifiliis
90-002410
Insecticides
90-002521
90-002656
Larvicides
90-002521
Life History/General
90-000541
90-003803
Lindane
90-002656
Management/Research--General
90-003954
90-006251
Management/Research--Rivers and Streams
90-002707
90-004659
90-006613
Mercury
90-000896
Mosquito Control
90-002521
90-003954
90-006251
Olfaction
90-001643
Parasites/Diseases
90-002410
90-004101
pH
90-003803
Phosphorus
90-003194
Photoreception
90-000288
Pineal Body
90-000288
Plankton
90-003194
Pollution Tolerance
90-002521

...CONTINUED...
Gambusia affinis
Population Studies
90-004659
Predator/Prey Relationships
90-003954
Protozoan Diseases
90-002410
Reproduction
90-003803
Reptile Predation
90-003942
Rice Paddies
90-003954
90-006251
Salinity
90-003803
Selenium
90-000889
90-002608
Toxic Algae
90-006186
Treatment
90-002410
Trophic Relationships
90-006613
Variation Studies
90-003725
90-003803
Vector Control
90-006251
Gambusia affinis affinis
Aggressive Behavior
90-005542
Islands
90-004687
Management/Research--Ponds
90-004687
Masculinization
90-005542
Population Studies
90-004687
Reproduction
90-005542
Sex Reversal
90-005542
Gambusia affinis holbrooki
Age/Growth
90-002262
Allozymes
90-003725
Bioaccumulation
90-006176
Cesium
90-006176
Cooling Reservoirs
90-006176
Enzymes
90-003725
Exotic Species/Italy
90-004500
Foods/Feeding
90-000623
Genetic Diversity
90-005461
Hybridization
90-003725
Management/Research--Ponds
90-002262
Management/Research--Reservoirs
90-006176
Mate Selection
90-002085

...CONTINUED...
Gambusia affinis holbrooki
Power Plants
90-002262
Radiation
90-006176
Stocking/Introductions
90-004500
Temperature
90-002262
Thermal Pollution
90-002262
Variation Studies
90-002262
90-003725
90-005461
Gambusia manni
Maturation
90-005602
Variation Studies
90-005602
Zoogeography
90-005602
Gambusia punctata
Nematodes
90-006030
Parasites/Diseases
90-006030
Rhabdochona cubensis
90-006030
Garra gotyla gotyla
Fecundity
90-003879
Length-Weight Relationships
90-003879
Gasterochisma melampus
Bacterial Diseases
90-004116
Goussia auxidis
90-004116
Parasites/Diseases
90-004116
Gasterosteidae
Alarm Reaction
90-000320
Chemoreception
90-000320
Photoperiodism
90-000320
Pollution
90-000320
Salinity
90-000320
Zinc
90-000320
Gasterosteus aculeatus
Acanthocephala
90-002456
Activity Patterns
90-005544
Age/Growth
90-002622
Aggressive Behavior
90-005562
Androgen
90-003479
Anguillicola crassus
90-004202
Argulus canadensis
90-006034
Bays
90-006312

...CONTINUED...
Gasterosteus aculeatus
Bioenergetics
90-002097
Cannibalism
90-003731
90-005533
Coccidia
90-004149
Coloration
90-003868
Condition Factors
90-004093
Copper
90-006150
Courtship
90-003731
Culture/Propagation
90-005019
Defensive Behavior
90-005568
Diets
90-005019
Disease Susceptibility
90-004093
Distribution/Factors of
90-003868
Distribution/Geographical
90-005854
Distribution/Vertical
90-005544
Early Development
90-001813
Ectoparasites
90-006034
Egg Predation
90-003731
Egg Production
90-005019
Egg Quality
90-005019
Eimeria aculeati
90-004149
Eimeria zarnowskii
90-004149
Endocrinology
90-000326
90-003479
Evolution
90-005379
Flow Regimes
90-006567
Food Supply
90-005544
Foods/Feeding
90-002127
90-002252
90-005544
90-005555
Goussia gasterostei
90-004149
Goussia zarnowskii
90-002412
Heavy Metals
90-006150
Hematology
90-000326
Histology
90-001813
Hormones
90-000326
Life History/General
90-005379

...CONTINUED...
Gasterosteus aculeatus
Life History/General
90-005664
90-005854
Management/Research--Lakes
90-003969
Management/Research--Marine
90-006312
Mate Selection
90-005540
90-005552
Meristic Studies
90-003240
Migration
90-005854
Modeling
90-006163
Morphometry
90-003240
Mortality Rates
90-003969
Nematodes
90-004202
Nutrition
90-005019
Olfaction
90-001813
Parasites/Diseases
90-002412
90-002456
90-002622
90-004093
90-004149
90-004202
90-006034
Parasitic Copepods
90-006034
Paratenuisentis ambiguus
90-002456
Parental Behavior
90-002097
Population Studies
90-005664
Predator/Prey Relationships
90-002252
90-003969
Protozoan Diseases
90-002412
90-004149
Pulp Mill Effluents
90-002622
90-006163
Recruitment
90-006567
Reproduction
90-005379
90-005533
Reproductive Cycle
90-003479
Reproductive System
90-000326
90-003240
Salinity
90-005379
Schooling Behavior
90-005568
Season
90-003479
Spawning
90-003868
90-005552

...CONTINUED...
Gasterosteus aculeatus
Speciation
90-003868
90-005664
Starvation
90-002097
Steroids
90-003479
Survival
90-002622
Territorial Behavior
90-005562
Toxicology
90-006163
Trophic Relationships
90-004093
Urban Development
90-005664
Variation Studies
90-003240
90-005379
90-005664
Vision
90-002127
Water Quality
90-006312
Weight Loss
90-002097
Zinc
90-006150
Gasterosteus wheatlandi
Argulus canadensis
90-006034
Ectoparasites
90-006034
Mate Selection
90-003617
Parasites/Diseases
90-006034
Parasitic Copepods
90-006034
Scales
90-003617
Variation Studies
90-003617
Zoogeography
90-003617
Gempylus serpens
Cytology
90-003243
Early Development
90-003243
Eyes
90-003243
Genyonemus lineatus
Abundance/Factors of
90-002775
DDD
90-000884
DDE
90-000884
DDT
90-000884
Foods/Feeding
90-003972
Larval Behavior
90-003972
Larval Drift
90-002775
Modeling
90-002775

...CONTINUED...
Genyonemus lineatus
Polychlorinated Biphenyls
90-000884
Public Health Problems
90-000884
Genypterus capensis
Commercial Fishing
90-001365
Longlines
90-001365
Management/Research--Marine
90-001365
Geophagus brasiliensis
Foods/Feeding
90-006787
Molluscs
90-006787
Parasites/Diseases
90-006787
Vector Control
90-006787
Geotria australis
Chloride Cells
90-001648
Cytology
90-001648
Endocrinology
90-005126
Gills
90-001648
Heavy Metals
90-003464
Iron
90-003464
Nervous System
90-005126
Osmoregulation
90-001648
Suckers
90-005126
Xenobiotics
90-003464
Gerres cinereus
Foods/Feeding
90-002243
Lagoons
90-002243
Gila crassicauda
Extinction
90-006784
Paleontology
90-006784
Gila cypha
Coexistence
90-003876
Flow Regimes
90-002810
Habitat Evaluation
90-002810
Habitat Selection
90-003876
HSI
90-002810
Management/Research--Rivers and Streams
90-002810
Niche Overlaps
90-003876
Spawning
90-003876
Gila ditaenia
Endangered/Threatened Species
90-006785

...CONTINUED...
Gila ditaenia
Population Studies
90-006785
Gila orcutti
Bioenergetics
90-001824
Metabolism
90-001824
Gila robusta
Coexistence
90-003876
Habitat Selection
90-003876
Niche Overlaps
90-003876
Spawning
90-003876
Gilchristella aestuarius
Ichthyoplankton
90-002904
Life History/General
90-006677
Management/Research--Estuaries
90-002904
90-006677
Nursery Areas
90-002904
90-006677
Variation Studies
90-006677
Gillellus
Population Studies
90-005677
Gillichthys mirabilis
Chloride Cells
90-001958
Digestive System
90-005307
Nervous System
90-001958
Peptides
90-005307
Ginglymostoma cirratum
Aflatoxins
90-003301
Age/Growth
90-005794
Anesthetics
90-004098
Courtship
90-003871
Dentition
90-001708
Diagnostic Techniques
90-004098
Endocrinology
90-003871
Liver
90-003301
Parasites/Diseases
90-004098
Treatment
90-004098
Xenobiotics
90-003301
Girardinichthys viviparus
Cytology
90-001733
Proteins
90-001733
Reproduction
90-001733

Girella
Dentition
90-002064
Evolution
90-002064
Taxonomy
90-002064
Girella nigricans
Coloration
90-003262
Distribution/Geographical
90-003262
Early Development
90-003262
Meristic Studies
90-003262
Pigments
90-003262
Girella punctata
Behavior
90-002758
Bioaccumulation
90-004359
Cadmium
90-004359
Exercise
90-002018
Fish Aggregation Devices
90-002758
Heavy Metals
90-004359
Lights
90-002758
Spleen
90-002018
Glandulocauda
Fish Lists/Keys
90-004076
Glaucosoma hebraicum
Commercial Fishing
90-001392
Glyptocephalus cynoglossus
Age/Growth
90-002285
Bioaccumulation
90-006156
Dibenzofuran
90-006156
Dioxin
90-006156
Exploitation Rates
90-002285
Magnesium
90-006156
Management/Research--Marine
90-002285
Maturation
90-002285
Morphometry
90-005124
Spawning
90-005693
Taxonomy
90-005124
Temperature
90-005693
Glyptocephalus stelleri
Morphometry
90-005124
Taxonomy
90-005124
Glyptocephalus zachirus
Morphometry
90-005124
Taxonomy
90-005124
Gnatholepis anjerensis
Predator/Prey Relationships
90-000525
Species Recognition
90-000525
Gnathonemus petersi
Computer Applications
90-003317
90-004361
Electric Fish
90-005301
90-005406
Electric Organs
90-003317
90-004361
90-005301
Electrotaxis
90-005406
Phenols
90-004361
Season
90-005301
Sexual Dimorphism
90-005301
Gnathonemus senegalensis
Foods/Feeding
90-000626
Gnathopogon caerulescens
Bioaccumulation
90-006224
CNP
90-006224
Diazinon
90-006224
Ether
90-006224
Herbicides
90-006224
Gobiesox maeandricus
Recruitment
90-002940
Gobiidae
Aquariums
90-003144
Culture/Propagation
90-003144
Fish Lists/Keys
90-004068
Lateral Line System
90-001739
Morphology
90-002354
Seismosensory System
90-001739
Taxonomy
90-002354
Gobio gobio
Chloride Cells
90-001720
Culture/Propagation
90-001557
Cytology
90-001720
Distribution/Geographical
90-004027
Feeding Experiments
90-001557

...CONTINUED...
Gobio gobio
Foods/Feeding
90-005773
Habitat Selection
90-004027
Histology
90-000297
Invertebrate Forage
90-001557
Larvae
90-001557
Management/Research--Reservoirs
90-006649
Maturation
90-003431
Mitochondria
90-001720
Niche Overlaps
90-005773
Osmoregulation
90-001720
Photoperiodism
90-003431
Reproduction
90-000297
Reproductive Cycle
90-003431
Reproductive System
90-000297
Temperature
90-003431
Trophic Relationships
90-006649
Gobiodon
Gonads
90-005125
Hermaphroditism
90-005125
Variation Studies
90-005125
Gobiomorphus cotidianus
Chironomidae
90-000633
Distribution/Vertical
90-003811
Foods/Feeding
90-000633
90-003811
Photoperiodism
90-003811
Phytoplankton
90-003811
Predator/Prey Relationships
90-000633
Season
90-003811
Toxic Algae
90-003811
Zooplankton
90-003811
Gobiomorus maculatus
Distribution/Geographical
90-005834
Gobionellus gracillimus
Allozymes
90-002067
Meristic Studies
90-002067
Morphometry
90-002067
Variation Studies
90-002067
Gobionellus hastatus
Allozymes
90-002067
Meristic Studies
90-002067
Morphometry
90-002067
Variation Studies
90-002067
Gobionellus oceanicus
Allozymes
90-002067
Meristic Studies
90-002067
Morphometry
90-002067
Variation Studies
90-002067
Gobionellus sagitulla
Distribution/Geographical
90-005834
Foods/Feeding
90-002278
Gobiosoma
Management/Research--Estuaries
90-006661
Nursery Areas
90-006661
Recruitment
90-006661
Gobiosoma bosci
Distribution/Vertical
90-000489
Life History/General
90-000489
Nests/Nesting
90-002973
Reproduction
90-005700
Schooling Behavior
90-000489
Spawning
90-005700
Territorial Behavior
90-002098
Gobiosoma chiquita
Abundance/Factors of
90-005873
Distribution/Factors of
90-005873
Management/Research--Marine
90-005873
Reef Fish Communities
90-005873
Gobiosoma oceanops
Aquariums
90-001593
Culture/Propagation
90-001593
Gobiosoma pallida
Larval Drift
90-005734
Gobius brunneus
Flow Regimes
90-001301
Larval Drift
90-005734
Management/Research--Rivers and Streams
90-001301
Population Studies
90-001301

Gobius cobitis
Foods/Feeding
90-005532
Temperature
90-005532
Gobius fluviatilis
Head
90-001741
Morphometry
90-001741
Osteology
90-001741
Taxonomy
90-001741
Gobius giurinus
Larval Drift
90-005734
Gobius melanostomus
Head
90-001741
Hematology
90-000383
Morphometry
90-001741
Osteology
90-001741
Oxygen
90-000383
Taxonomy
90-001741
Temperature
90-000383
Gobius niger
Detoxification
90-006134
Fright Behavior
90-003769
Helicometra
90-002452
Histology
90-000202
Hormones
90-000232
Parasites/Diseases
90-002452
Pigments
90-000220
Polychlorinated Biphenyls
90-006134
Predator/Prey Relationships
90-003769
Reproductive System
90-000202
90-000232
Spawning
90-003769
Trematodes
90-002452
Variation Studies
90-000202
90-000220
Vision
90-000220
Gobius paganellus
Chromosomes
90-003614
Endocrinology
90-005344
Gonads
90-005344
Karyotypes
90-003614

...CONTINUED...

Gobius paganellus
Reproductive System
90-005344
Steroids
90-005344
Gobius syrman
Head
90-001741
Morphometry
90-001741
Osteology
90-001741
Taxonomy
90-001741
Gobiusculus flavescens
Foods/Feeding
90-003931
Management/Research--Estuaries
90-003931
Nursery Areas
90-003931
Gobulus myersi
Population Studies
90-005677
Gorgasia
Life History/General
90-003806
Population Studies
90-003806
Grammidae
Olfaction
90-003238
Osteology
90-003238
Taxonomy
90-003238
Gymnocanthus tricuspis
Early Development
90-003245
Gymnocephalus cernuus
Abundance/Factors of
90-002845
Acidification
90-004712
Anguillicola crassus
90-004202
Chromosomes
90-005469
Competition
90-003733
Discocotyle sagittata
90-004226
Distribution/Geographical
90-002845
Fin Erosion
90-006164
Foods/Feeding
90-003733
Gill Parasites
90-004226
Habitat Selection
90-004619
Karyotypes
90-005469
Management/Research--Lakes
90-002845
90-004619
Management/Research--Ponds
90-003733
Management/Research--Reservoirs
90-006649

...CONTINUED...
Gymnocephalus cernuus
Nematodes
90-004202
Parasites/Diseases
90-004202
90-004226
90-006164
Population Studies
90-004619
Pulp Mill Effluents
90-006164
Recruitment
90-004712
Trematodes
90-004226
Trophic Relationships
90-003733
90-006649
Gymnodraco acuticeps
Morphology
90-004063
Osteology
90-004063
Taxonomy
90-004063
Gymnorhamphichthys rosamariae
Morphology
90-004080
New Species
90-004080
Gymnoscopelus braueri
Foods/Feeding
90-002257
Gymnoscopelus nicholsi
Foods/Feeding
90-002257
Gymnoscopelus opisthopterus
Foods/Feeding
90-002257
Gymnothorax funebris
Ciguatera
90-000921
Ichthyotoxin
90-000921
Gymnothorax hubbsi
Distribution/Geographical
90-000675
Gymnothorax permistus
Distribution/Geographical
90-000698
Gymnothorax unicolor
Chromosomes
90-003639
Karyotypes
90-003639
Gymnotus carapo
Digestive System
90-003235
Electric Fish
90-005306
Electric Organs
90-005306
Foods/Feeding
90-000657
90-003236
Nervous System
90-005306
Pharynx
90-003236
Gyrinomimus
Distribution/Geographical
90-002320
Hadropareia semisquamata
Morphology
90-004033
New Species
90-004033
Haemulon aurolineatum
Biological Indicators
90-004265
Cytochrome P450
90-003563
Endocrinology
90-003563
Heavy Metals
90-004265
Metallothionein
90-004265
Haemulon flavolineatum
Cytochrome P450
90-003563
Endocrinology
90-003563
Rotenone
90-002655
Haemulon plumieri
Length-Weight Relationships
90-003860
Population Studies
90-003860
Stock Assessment
90-003860
Haemulon sciurus
Biological Indicators
90-004265
Cytochrome P450
90-003563
Endocrinology
90-003563
Heavy Metals
90-004265
Metallothionein
90-004265
Rotenone
90-002655
Halichoeres poecilopterus
Exercise
90-002018
Spleen
90-002018
Halophryne gangene
Culture/Propagation
90-003150
Haplochromis
Activity Patterns
90-006513
Coexistence
90-006513
Competition
90-004502
Exotic Species/Rwanda
90-004502
Management/Research--Lakes
90-004502
90-006513
Stocking/Introductions
90-004502
Trophic Relationships
90-006513
Haplochromis argens
Interspecies Relationships
90-005706
Reproduction
90-005706

Haplochromis burtoni
Cytology
90-003260
Osteology
90-003260
Haplochromis compressiceps
Aquariums
90-005075
Courtship
90-005075
Culture/Propagation
90-005075
Spawning
90-005075
Haplochromis elegans
Cytology
90-003260
Foods/Feeding
90-003728
Head
90-001645
Musculature
90-001645
Osteology
90-003260
Haplochromis heusinkveldi
Interspecies Relationships
90-005706
Reproduction
90-005706
Haplochromis laparogramma
Interspecies Relationships
90-005706
Reproduction
90-005706
Haplochromis piceatus
Interspecies Relationships
90-005706
Reproduction
90-005706
Haplochromis pyrrhocephalus
Interspecies Relationships
90-005706
Reproduction
90-005706
Harengula humeralis
Distribution/Vertical
90-000519
Schooling Behavior
90-000519
Social Behavior
90-000519
Harengula jaguana
Abundance/Factors of
90-005637
Distribution/Seasonal
90-005637
Early Development
90-005637
Life History/General
90-005637
Harengula thrissina
Defensive Behavior
90-000518
Predator/Prey Relationships
90-002266
Schooling Behavior
90-000518
Harengula zunasi
Harvest
90-006403
Harpagifer
Bird Predation
90-005802
Hasemania nana
Aquariums
90-001605
Culture/Propagation
90-001605
Helicolenus dactylopterus lahillei
Food Technology
90-004836
Helogeneidae
Reproductive System
90-001705
Helostoma temmincki
Bacterial Flora
90-001962
Hemichromis bimaculatus
Aggressive Behavior
90-003429
Cytology
90-003260
Dominance
90-003774
Intraspecies Relationships
90-003774
Nervous System
90-003429
Osteology
90-003260
Territorial Behavior
90-003774
Hemichromis fasciatus
Enterogyrus melenensis
90-000782
Parasites/Diseases
90-000782
Trematodes
90-000782
Hemiculter eigenmanni
Cytology
90-003215
Eggs
90-003215
Morphometry
90-001742
Taxonomy
90-001742
Hemiculter leucisculus
Reproductive Cycle
90-003468
Hemiculter lucidus
Morphometry
90-001742
Taxonomy
90-001742
Hemigrammus caudovittatus
Foods/Feeding
90-002112
Larval Behavior
90-002112
Swimming Performance
90-002112
Hemigrammus pulcher
Aquariums
90-005076
Culture/Propagation
90-005076
Hemilepidotus gilberti
Coastal Habitat
90-004820

...CONTINUED...
Hemilepidotus gilberti
Habitat Selection
90-004820
Reproduction
90-004820
Hemilepidotus jordani
Coastal Habitat
90-004820
Habitat Selection
90-004820
Reproduction
90-004820
Hemiodus orthonops
Nematodes
90-006033
Parasites/Diseases
90-006033
Spirocamallanus paraguayensis
90-006033
Hemitilapia oxyrhynchus
Social Behavior
90-003786
Hemitremia flammea
Evolution
90-003652
Hemitripterus americanus
Carbohydrate Metabolism
90-003372
Cardiovascular System
90-000225
Endocrinology
90-003372
Enzymes
90-003372
Insulin
90-003372
Oxygen
90-000225
Temperature
90-000225
Hemysynodontis membranaceus
Chromosomes
90-005426
Karyotypes
90-005426
Hepsetus odoe
Early Development
90-005620
Fecundity
90-005620
Floodplains
90-005620
Reproduction
90-005620
Wetlands
90-005620
Hermosilla azurea
Coloration
90-003262
Distribution/Geographical
90-003262
Early Development
90-003262
Meristic Studies
90-003262
Pigments
90-003262
Herotilapia multispinosa
Distribution/Geographical
90-005834
Hesperoleucus symmetricus
Habitat Selection
90-006565

...CONTINUED...
Hesperoleucus symmetricus
Heavy Metals
90-000806
Management/Research--Reservoirs
90-000806
Mining
90-000806
Pollution
90-000806
Temperature Selection
90-006565
Water Quality
90-000806
Heterandria formosa
Aquariums
90-001613
Culture/Propagation
90-001613
Parental Behavior
90-001613
Temperature
90-005249
Thermal Tolerance
90-005249
Heterobranchus
Fish Lists/Keys
90-004084
Taxonomy
90-004084
Heterodontus francisci
Carcinogens
90-006239
Heart
90-000215
Immune Response
90-005474
Research Test Fish
90-006239
Toxicity Testing
90-006239
Variation Studies
90-005474
Heterodontus mexicanus
Abundance/Factors of
90-000610
Distribution/Seasonal
90-000610
Foods/Feeding
90-000610
Heteropneustes fossilis
Aeromonas hydrophila
90-004126
Air Breathing
90-001718
Ammonia
90-005366
Bacterial Diseases
90-004126
Biochemical Composition
90-000917
Bioenergetics
90-000358
Biological Monitoring
90-006099
Cardiovascular System
90-001718
Chlorinated Hydrocarbons
90-000917
Chlorpyrifos
90-006216
Chromium
90-002570

...CONTINUED...
Heteropneustes fossilis
Chromium
90-002645
Copper
90-006099
90-006213
Endocrinology
90-000358
Endosulfan
90-000928
Enzymes
90-000928
Epidermis
90-000928
Excretory System
90-005366
Gills
90-000928
90-001718
Head
90-001718
Heavy Metals
90-002570
90-002645
90-002645
90-006099
90-006213
Hematology
90-000358
90-000917
90-002645
90-006213
Heptachlor
90-000917
Insecticides
90-000917
90-006216
Mercury
90-002570
Micrococcus varians
90-004126
Parasites/Diseases
90-004126
Pesticides
90-000928
Respiratory System
90-001718
Starvation
90-000358
Stress
90-005366
Thyroxine
90-000358
Ulcer Disease
90-004126
Urea
90-005366
Zinc
90-002570
90-002645
Heterostichus rostratus
Habitat Selection
90-006701
Kelp Forests
90-006701
Heterotis niloticus
Age/Growth
90-000060
Culture/Propagation
90-000060
Foods/Feeding
90-000517

...CONTINUED...
Heterotis niloticus
Polyculture
90-000060
Spawning
90-000517
Hexagrammos lagocephalus
Coastal Habitat
90-004820
Habitat Selection
90-004820
Reproduction
90-004820
Hexagrammos octogrammus
Light
90-003389
Photoperiodism
90-003389
Vision
90-003389
Hexagrammos stelleri
Eyes
90-000268
Light
90-000268
Pigments
90-000268
Hexanchus griseus
Distribution/Geographical
90-000688
90-005858
Life History/General
90-000688
Hilsa ilisha
Fishing Gear
90-001003
Himantolophus cornifer
Distribution/Geographical
90-005879
Himantolophus multifurcatus
Distribution/Geographical
90-005879
Himantura jenkinsii
Distribution/Geographical
90-002324
Himantura uarnak
Merizocotyle icopae
90-002434
Monocotyle helicophallus
90-006027
Monocotyle multiparous
90-006027
Monocotyle spiremae
90-006027
Parasites/Diseases
90-002434
90-004229
90-006027
Thaumatocotyle australensis
90-002434
Trematodes
90-002434
90-004229
90-006027
Trimusculotrema micracantha
90-004229
Hippocampus
Aquariums
90-001600
Life History/General
90-000560
Population Studies
90-000560

Hippocampus brevirostris
Histology
90-000192
Kidneys
90-000192
Hippocampus kuda
Culture/Propagation
90-003150
Hippoglossoides dubius
Age/Growth
90-005813
Hippoglossoides elassodon
Age/Growth
90-001027
Harvest
90-001027
Mortality Rates
90-001027
Recruitment
90-001027
Hippoglossoides platessoides
Commercial Fishing
90-005626
Eutrophication
90-004233
Foods/Feeding
90-005786
Gear Efficiency
90-006402
Hypoxia
90-004233
Life History/General
90-005625
90-005626
Management/Research--Marine
90-004233
Nets/Trawls
90-006402
Nursery Areas
90-004697
Pollution
90-004233
Hippoglossoides platessoides limandoides
Distribution/Geographical
90-004797
Hippoglossus hippoglossus
Culture/Propagation
90-003102
90-005002
90-005153
Digestive System
90-005256
Early Development
90-005153
90-005345
Egg Production
90-003102
90-005002
Eggs
90-005345
Embryology
90-005345
Enzymes
90-000267
90-005256
Fry Production
90-003102
Incubation
90-005002
Larvae
90-003102

...CONTINUED...

Hippoglossus hippoglossus
Larvae
90-005153
Life History/General
90-005611
Management/Research--Marine
90-000986
Marking/Tagging
90-006363
Protein Metabolism
90-000267
Regulations/Size Limits
90-000986
Yield
90-000986
Yield-per-Recruit
90-000986
Hippoglossus stenolepis
Abundance/Factors of
90-001051
90-001080
Age/Growth
90-004581
Commercial Fishing
90-001399
90-002944
Currents
90-002944
Economic Value
90-001399
90-006346
Economics
90-004491
Exploitation Rates
90-001399
Groundfish
90-004491
Jurisdiction
90-006346
Law of the Sea
90-004491
90-006346
Length-Weight Relationships
90-004581
Management/Research--Marine
90-001399
90-002944
90-004491
90-004581
90-006346
Marketing
90-004491
Modeling
90-001051
90-001080
Mortality Rates
90-004581
Production
90-001051
90-001080
Recruitment
90-002944
Regulations/Size Limits
90-004581
Social Values
90-006346
Stock Assessment
90-001051
90-001080
90-004581
Hirundichthys affinis
Catch Per Unit Effort
90-004770

...CONTINUED...
Hirundichthys affinis
Exploitation Rates
90-004770
Leaping Behavior
90-003740
Management/Research--Marine
90-004770
Planning
90-004770
Recruitment
90-004770
Swimming Performance
90-003740
Holocentrus ascensionis
Nests/Nesting
90-000526
Holocentrus rufus
Biological Indicators
90-004265
Heavy Metals
90-004265
Metallothionein
90-004265
Rotenone
90-002655
Hoplias malabaricus
Foods/Feeding
90-000657
Hoplosternum littorale
Air Breathing
90-002087
Foods/Feeding
90-002087
Movements
90-002087
Photoperiodism
90-002087
Hoplostethus atlanticus
Age/Growth
90-005799
Commercial Fishing
90-001414
90-003822
Length-Weight Relationships
90-000664
Life History/General
90-001414
90-003822
Management/Research--Marine
90-001414
90-003822
Maturation
90-000595
Otoliths
90-005799
Population Studies
90-003822
Regulations/Catch Limits
90-001414
Spawning
90-000595
Stock Assessment
90-000664
von Bertalanffy Growth Function
90-005799
Hucho perryi
Digestive System
90-003224
Hucho taimen
Commercial Fishing
90-004680

...CONTINUED...
Hucho taimen
Enzymes
90-003682
Variation Studies
90-003682
Huso
Branchial Basket
90-001670
Huso huso
Culture/Propagation
90-004983
Endocrinology
90-000427
Hybridization
90-000427
90-000429
90-004983
Karyotypes
90-000429
Migration
90-003888
Pituitary Gland
90-000427
Reproductive System
90-000427
Site Suitability
90-004983
Spawning
90-003888
X-rays
90-000427
Hybognathus cahni
Allozymes
90-005446
Hybognathus dissimilis
Allozymes
90-005446
Hybognathus gracilis
Allozymes
90-005446
Hybognathus insignis
Allozymes
90-005446
Hybognathus placitus
Evolution
90-003652
Management/Research--Rivers and Streams
90-002171
Population Studies
90-002171
Recruitment
90-002171
Reproduction
90-002171
Hybognathus storeriana
Allozymes
90-005446
Hybopsis
Nervous System
90-001863
Turbidity
90-001863
Vision
90-001863
Hybopsis aestivalis
Allozymes
90-005446
Evolution
90-003652
Hybopsis amblops
Allozymes
90-005446

Hybopsis gelida
Allozymes
90-005446
Hybopsis labrosa
Allozymes
90-005446
Hybopsis meeki
Allozymes
90-005446
Hybopsis rubrifrons
Allozymes
90-005446
Hybopsis zanema
Allozymes
90-005446
Hydrolagus colliei
Bombesin
90-005391
Digestive System
90-005391
Histology
90-003261
Peptides
90-005391
Reproductive System
90-003261
Sperm
90-003261
Hyphessobrycon flammeus
Aquariums
90-005633
Culture/Propagation
90-005633
Life History/General
90-005633
Spawning
90-005633
Hyphessobrycon innesi
Adrenergic System
90-003244
Coloration
90-003244
Light
90-003244
Pigments
90-003244
Hyphessobrycon pulchripinnis
Aquariums
90-003156
Culture/Propagation
90-003156
Hypoatherina harringtonensis
Distribution/Vertical
90-000519
Schooling Behavior
90-000519
Social Behavior
90-000519
Hypoatherina tsurugae
Circadian Rhythms
90-003401
Light
90-003401
Phototropism
90-003401
Vision
90-003401
Hypomesus nipponensis
Age/Growth
90-005814
Early Development
90-001735

...CONTINUED...
Hypomesus nipponensis
Early Development
90-005159
Embryology
90-001735
90-005159
Gear Selectivity
90-002741
Hooks
90-002741
Larvae
90-001735
Nets/Gill Nets
90-002741
Otoliths
90-005814
Pole and Line
90-002741
Hypomesus pretiosus
Gear Selectivity
90-006413
Nets/Gill Nets
90-006413
Nets/Netting
90-006413
Sampling
90-006413
Hypomesus pretiosus pretiosus
Harvest
90-006700
Management/Research--Marine
90-006700
Recreational Benefits
90-006700
Sportfishing
90-006700
Hypophthalmichthys molitrix
Cage Culture
90-001338
Amino Acids
90-000868
Aquatic Plant Control
90-002888
90-004089
Cage Culture
90-000039
90-004942
Cloning
90-003726
Control/Algae
90-002888
Control/Biological
90-002888
Culture/Propagation
90-000039
90-000054
90-000733
90-001338
90-001521
90-001552
90-001562
90-001584
90-003049
90-003074
90-003726
90-004926
90-004932
90-004934
90-004942
90-005037
90-005777

...CONTINUED...
Hypophthalmichthys molitrix
Culture/Propagation
90-006444
Diets
90-005777
Digestive System
90-006444
Economics
90-000054
90-004934
Endocrinology
90-003324
Environmental Impacts
90-000039
90-000054
Eutrophication
90-005764
90-006526
90-006527
90-006655
Exotic Species
90-004517
90-006527
Exotic Species/Denmark
90-000995
Feeding Experiments
90-001552
90-001584
Feeds
90-001562
90-004934
90-005037
Fertilization/Soil and Water
90-003074
Fingerling Production
90-001584
Foods/Feeding
90-001584
90-003936
90-005760
90-005764
90-005777
90-005777
90-006526
90-006656
Fry Production
90-001552
90-001584
Genetics
90-003726
Gonadotropin
90-003324
Gynogenesis
90-003726
Hormones
90-004932
Inbreeding
90-003049
Induced Maturation
90-004926
90-004932
Invertebrate Forage
90-005037
Larvae
90-005037
Life History/General
90-005777
Liver
90-000868
Management/Research--Lakes
90-005764

...CONTINUED...
Hypophthalmichthys molitrix
Management/Research--Lakes
90-006526
90-006527
Management/Research--Ponds
90-004517
Management/Research--Reservoirs
90-001338
90-002888
90-006655
90-006656
Modeling
90-001338
Net-Pen Culture
90-004942
Nutrients
90-006526
Parasites/Diseases
90-000733
90-004089
Plankton
90-006527
90-006655
Polyculture
90-004934
Pond Culture
90-003074
Predator/Prey Relationships
90-003936
Reproduction
90-000237
90-004926
Reproductive Cycle
90-003468
Rice-Fish Culture
90-000054
Stocking/Introductions
90-002888
90-004089
90-004517
90-006527
90-006655
Toxins
90-000868
Trophic Relationships
90-002888
90-004517
90-005764
90-006526
90-006527
90-006655
90-006656
Variation Studies
90-003678
Hypophthalmichthys nobilis
Cage Culture
90-001338
Culture/Propagation
90-001338
90-003610
Genetics
90-003610
Management/Research--Reservoirs
90-001338
Modeling
90-001338
Tetraploidy
90-003610
Triploid Fish
90-003610
Hypoplectrodes
Taxonomy
90-000703

Hypoplectrodes nigrorubrum
Morphology
90-000703
Taxonomy
90-000703
Hypoplectrodes semicinctus
Morphology
90-000703
Taxonomy
90-000703
Hypopomus
Electric Behavior
90-000296
Electric Fish
90-000296
Electric Organs
90-000296
Social Behavior
90-000296
Hypopomus occidentalis
Electrical Communication
90-005541
Hyporhamphus capensis
Ichthyoplankton
90-002904
Management/Research--Estuaries
90-002904
Nursery Areas
90-002904
Hypostomus
Distribution/Geographical
90-005890
Taxonomy
90-005890
Hypostomus isbrueckeri
Distribution/Geographical
90-005890
Morphology
90-005890
New Species
90-005890
Hypostomus plecostomus
Bird Predation
90-001283
Management/Research--Rivers and Streams
90-001283
Trophic Relationships
90-001283
Hypostomus punctatus
Cytochrome
90-003343
Xenobiotics
90-003343
Hypostomus regani
Parasites/Diseases
90-002421
Protozoan Diseases
90-002421
Trypanosoma regani
90-002421
Hypostomus roseopunctatus
Distribution/Geographical
90-005890
Morphology
90-005890
New Species
90-005890
Hypostomus uruguayensis
Distribution/Geographical
90-005890

...CONTINUED...
Hypostomus uruguayensis
Morphology
90-005890
New Species
90-005890
Hysterocarpus traski
Extinction
90-006784
Habitat Selection
90-006565
Life History/General
90-002151
Paleontology
90-006784
Parental Behavior
90-002151
Reproduction
90-002151
Temperature Selection
90-006565
Ichthyomyzon
Bayer 73
90-002106
Fish Control/Removal
90-002106
Habitat Selection
90-002106
Lamprey Control
90-002106
Lampricides
90-002106
Larval Behavior
90-002106
Life History/General
90-002106
Ichthyomyzon greeleyi
Distribution/Geographical
90-005832
Ichthyomyzon unicuspis
Distribution/Geographical
90-002141
Life History/General
90-002141
Nervous System
90-003574
Respiration
90-003574
Ictaluridae
Carcass Traits
90-005010
Culture/Propagation
90-005010
Diets
90-005010
Public Health Problems
90-005010
Ictalurus
Sportfishing
90-006284
Urban Fishing
90-006284
Ictalurus catus
Age/Growth
90-006534
Biosorption
90-002560
Harvest
90-006534
Management/Research--Lakes
90-006534
Pollution
90-002560

...CONTINUED...
Ictalurus catus
Sportfishing
90-006534
Ictalurus furcatus
Age/Growth
90-003048
90-005803
Cage Culture
90-003048
Culture/Propagation
90-003048
Electrofishing
90-006417
Genetics
90-003048
Harvest
90-005803
Hybridization
90-003048
Laws/Law Enforcement
90-006417
Management/Research--Reservoirs
90-005803
Management/Research--Rivers and Streams
90-004684
90-005803
Maturation
90-005708
Misc. Gear
90-006417
Pond Culture
90-003048
Rearing Density
90-003048
Recreational Benefits
90-004684
Regulations/Fishing Gear
90-006417
Reproductive Cycle
90-005708
Spawning
90-005708
Sportfishing
90-004684
Ictalurus lupus
Distribution/Geographical
90-005845
Habitat Selection
90-005845
Ictalurus melas
Acid Mine Water
90-000812
Agonistic Behavior
90-002104
Baitfish
90-006638
Chromosomes
90-003635
Economic Value
90-006638
Exotic Species/South Dakota
90-006638
Heavy Metals
90-002612
Interspecies Relationships
90-002104
Karyotypes
90-003635
Kidneys
90-002612

...CONTINUED...
Ictalurus melas
Management/Research--Lakes
90-006516
Management/Research--Ponds
90-006638
90-006644
Management/Research--Rivers and Streams
90-000812
Mercuric Chloride
90-002612
90-006184
Niche Overlaps
90-002104
Pollution
90-000812
Pollution Avoidance
90-002100
Population Studies
90-006644
Reservoir Release Effects
90-002100
Salinity
90-002612
Selenium
90-002612
90-006184
Stocking/Introductions
90-006516
Thermal Pollution
90-002100
Trophic Relationships
90-006516
Wetlands
90-006638
Ictalurus nebulosus
Age/Growth
90-004186
Aromatic Hydrocarbons
90-002499
Beaver Ponds
90-004686
Benzo(a)pyrene
90-002499
90-004387
Bile
90-002499
Biological Monitoring
90-002499
90-004262
Biosorption
90-002499
90-002560
90-004262
Biotransformation
90-004387
Carcinogens
90-004389
Chromosomes
90-003635
DNA
90-004364
Exotic Species/Denmark
90-000995
Habitat Improvement/General
90-004695
Heavy Metals
90-004262
Hepatic Neoplasms
90-004186
90-004344

...CONTINUED...
Ictalurus nebulosus
Hepatic Neoplasms
90-004389
Industrial Wastes
90-004344
Karyotypes
90-003635
Liver
90-004387
Management/Research--Estuaries
90-004695
Mutagens
90-004364
90-004389
Neoplasms
90-004344
Parasites/Diseases
90-004186
90-004389
90-006036
Pollution
90-002560
Pollution Detection
90-004262
Polycyclic Aromatic Hydrocarbons
90-004364
Population Studies
90-005712
Recruitment
90-005712
Sediment Bioassays
90-002499
Tumors
90-006036
Wetlands
90-004695
Xenobiotics
90-004387
Ictalurus punctatus
Abnormalities
90-005164
Abundance/Factors of
90-005645
Aeration
90-000036
90-004966
Aeromonas hydrophila
90-004128
90-005928
Aeromonas salmonicida
90-004128
Aeromonas sobria
90-002403
90-005928
Age/Growth
90-000045
90-001976
90-003048
90-004987
90-005013
90-005645
90-006534
Alarm Reaction
90-000293
Alarm Substances
90-000293
Amino Acids
90-000126
90-000394
90-003314
Anemia
90-001569

...CONTINUED...
Ictalurus punctatus
Antibiotics
90-005930
Antibodies
90-005174
Antigens
90-002003
Bacterial Diseases
90-000036
90-000742
90-002382
90-002392
90-002403
90-004128
90-005916
90-005928
90-005930
90-005936
Bacterial Flora
90-003565
Bactericides
90-002403
90-005935
Baits/Baiting
90-002735
Bioenergetics
90-001786
Biosorption
90-002560
Brackishwater Culture
90-004987
Brood Stock
90-001528
90-003716
Cage Culture
90-003048
Calcium
90-000089
90-005045
Carcass Traits
90-001425
90-003131
Channel Catfish Reovirus
90-002425
90-002427
Chemoreception
90-000293
90-001791
Climate
90-003084
Clinostomum marginatum
90-004212
90-006022
Cottonseed
90-001574
Culture/Propagation
90-000036
90-000040
90-000045
90-000058
90-000079
90-000089
90-000126
90-000733
90-000742
90-001425
90-001528
90-001529
90-001543
90-001555
90-001569

...CONTINUED...
Ictalurus punctatus
Culture/Propagation
90-001572
90-001573
90-001574
90-001624
90-001887
90-001976
90-002382
90-002727
90-003047
90-003048
90-003063
90-003068
90-003084
90-003087
90-003131
90-003132
90-003716
90-004148
90-004943
90-004966
90-004987
90-005013
90-005040
90-005041
90-005045
90-005052
90-005090
90-005101
90-005434
90-005935
90-005936
Diagnostic Techniques
90-002382
90-002427
90-005928
Diets
90-000089
90-000126
90-001555
Digestive System
90-003565
Disease-Free Culture
90-000036
90-002392
Drug Clearance
90-004138
Dyes
90-006115
Early Development
90-001555
Economics
90-000040
90-001529
90-004966
90-005013
Edwardsiella ictaluri
90-000036
90-000742
90-002382
90-002392
90-002403
90-005916
Edwardsiella tarda
90-005930
Electrophysiology
90-000394
Endocrinology
90-003047
90-003351

...CONTINUED...
Ictalurus punctatus
Enteric Septicemia
90-000036
90-000742
90-005930
Environmental Impacts
90-002727
Exercise
90-005194
Exotic Species/New Zealand
90-002727
Fat Column
90-000374
Fatty Acids
90-000374
90-003131
Feeding Attractants
90-005041
Feeding Experiments
90-000040
90-004966
90-005013
Feeds
90-000079
90-000089
90-000126
90-001543
90-001555
90-001569
90-001572
90-001573
90-001574
90-003132
90-004943
90-005040
90-005041
90-005052
Fingerling Production
90-000040
90-000058
90-000126
90-003068
90-005052
Fins
90-005164
Flexibacter columnaris
90-005936
Foods/Feeding
90-005645
90-005791
Fry Production
90-000040
90-001573
Fungal Diseases
90-004138
Fungicides
90-004138
Genetic Strains
90-001528
90-005434
Genetics
90-000036
90-003048
90-003716
90-005434
Growth Hormone
90-000045
90-001976
90-002050
Growth Stimulants
90-000045

...CONTINUED...
Ictalurus punctatus
Growth Stimulants
90-001976
Gynogenesis
90-002047
Habitat Selection
90-006605
Harvest
90-006534
Hatchery Releases
90-002727
Hatchery/Wild Populations
90-001425
Healing
90-003472
Henneguya
90-004152
Herpesvirus
90-002427
Herpesvirus ictaluri
90-002425
Hormones
90-002042
90-003047
90-005090
Hybridization
90-003048
Ichthyophthirius multifiliis
90-004154
90-005957
Ichthyoplankton
90-001339
Immune Response
90-001887
90-002003
90-002392
90-004128
90-005045
90-005174
90-005203
Immunization
90-005957
Immunoglobulins
90-001887
90-005174
Induced Maturation
90-003047
90-005090
Kidneys
90-001976
Lactate
90-005194
Larvae
90-001555
Life History/General
90-000570
90-005645
Lipid Composition
90-001528
90-003131
Lipid Metabolism
90-000374
90-000384
Malathion
90-002566
Management/Research--Lakes
90-006534
Management/Research--Reservoirs
90-001320
90-001339
Management/Research--Rivers and Streams
90-002220

...CONTINUED...
Ictalurus punctatus
Management/Research--Rivers and
90-004684
90-006605
Medication In Diets
90-000036
90-000045
90-001976
90-003068
Metabolic Rates
90-001786
Metabolism
90-000374
90-005194
Microhabitat
90-006605
Modeling
90-004358
Movements
90-000570
90-002220
Musculature
90-003131
Nets/Hoop Nets
90-002735
Nutrition
90-000089
90-000126
90-001543
90-001555
90-001569
90-003131
90-004943
90-005013
90-005045
Nutritional Diseases
90-001569
90-002392
90-004943
Olfaction
90-000394
Oogenesis
90-003351
Organophosphates
90-002566
Ormethoprim
90-003068
90-003439
Osteology
90-005164
Overwintering
90-004943
90-005101
Oxygen
90-001791
Parasites/Diseases
90-000036
90-000733
90-000742
90-001569
90-001887
90-002382
90-002392
90-002403
90-002425
90-002427
90-003068
90-004138
90-004148
90-004152
90-004154

...CONTINUED...
Ictalurus punctatus
Parasites/Diseases
90-004212
90-004943
90-005916
90-005928
90-005930
90-005935
90-005936
90-005957
90-006022
Pesticides
90-002566
Phagocytosis
90-001869
Phytate
90-000089
Planning
90-001529
Pollution
90-002560
Polychlorinated Biphenyls
90-004358
Polyculture
90-000036
90-005101
Pond Culture
90-000036
90-001624
90-002392
90-003048
90-003084
90-005936
Population Studies
90-002220
90-006605
Potassium Permanganate
90-000036
Production
90-001624
Proliferative Gill Disease
90-004152
Protozoan Diseases
90-004148
90-004152
90-004154
90-005957
Raceway Culture
90-003087
Rearing Density
90-003048
90-003087
90-004966
Recirculating Systems
90-001624
90-003087
Recreational Benefits
90-004684
Research Test Fish
90-005203
Rice-Fish Culture
90-005040
Salinity
90-004987
Selective Breeding
90-005434
Sex Determination
90-002042
90-003351
Sphaerospora ictaluri
90-004148

...CONTINUED...
Ictalurus punctatus
Sportfishing
90-004684
90-006534
Steroids
90-001976
Stock Identification
90-003716
Stocking/Introductions
90-001320
90-002727
Stunting
90-005791
Sulfadimethoxine
90-005935
Sulphadimidine
90-003068
Taste and Odor Problems
90-003063
Taste Reception
90-003314
Temperature
90-001887
90-003084
Toxicology
90-004358
Treatment
90-002403
90-004138
90-004212
90-005935
90-006022
Trematodes
90-004212
90-006022
Vaccination
90-002425
90-005936
90-005957
Variation Studies
90-003716
Viral Diseases
90-002427
Vitamins
90-000126
90-002392
90-003565
Water Quality
90-003087
Winter
90-004943
90-005101
Zinc
90-000089
90-005045
Ictiobus cyprinellus
Parasites/Diseases
90-000778
Rhabdovirus carpio
90-000778
Viral Diseases
90-000778
Idus idus
Foods/Feeding
90-002268
Ilyodon xantusi
Disease Susceptibility
90-005441
Iodotropheus stuartgranti
Life History/General
90-004072

...CONTINUED...
Iodotropheus stuartgranti
New Species
90-004072
Istiophoridae
Fisherman/Angler Surveys
90-006344
Fishing Tournaments
90-004771
Management/Research--Marine
90-004771
90-006344
Recreational Benefits
90-006344
Regulations/General
90-004771
Social Values
90-004771
90-006344
Istiophorus platypterus
Foods/Feeding
90-004756
Management/Research--Marine
90-004756
Recreational Benefits
90-004756
Sportfishing
90-004756
Isurus oxyrinchus
Biosorption
90-004400
Cadmium
90-004400
Cardiovascular System
90-001669
90-003213
Heart
90-003213
Heavy Metals
90-004400
Manganese
90-004400
Zinc
90-004400
Isurus paucus
Cardiovascular System
90-003213
Heart
90-003213
Jenkinsia lamprotaenia
Distribution/Vertical
90-000519
Schooling Behavior
90-000519
Social Behavior
90-000519
Jenynsia lineata lineata
Foods/Feeding
90-005753
Johnius
Fish Preservation
90-004833
Storage Effects
90-004833
Jordanella floridae
Bioassay Techniques
90-002629
Biosorption
90-004388
Chlorinated Benzenes
90-004388
Chlorophenols
90-004388
...CONTINUED...
Jordanella floridae
Evolution
90-000340
Modeling
90-002629
Osmoregulation
90-000340
Salinity
90-000340
Toxicology
90-002629
Jordania zonope
Coastal Habitat
90-003934
Foods/Feeding
90-003934
Microhabitat
90-003934
Joturus pichardi
Lagoons
90-002180
Management/Research--Marine
90-002180
Maturation
90-002180
Spawning
90-002180
Kareius bicoloratus
Gear Selectivity
90-002738
Modeling
90-002738
Nets/Gill Nets
90-002738
Proteins
90-003604
Kneria auriculata
Distribution/Geographical
90-000548
Life History/General
90-000548
Knipowitschia caucasica
Morphology
90-004068
Knipowitschia thessala
Morphology
90-004068
Konosirus punctatus
Harvest
90-006403
Krefftichthys anderssoni
Early Development
90-003939
Foods/Feeding
90-002257
90-003939
Kryptopterus
Evolution
90-000432
Genetics
90-000432
Kyphosidae
Dentition
90-002064
Evolution
90-002064
Taxonomy
90-002064
Labeo bata
Gill Parasites
90-005962

...CONTINUED...
Labeo bata
Myxobolus haldari
90-005962
Parasites/Diseases
90-005962
Protozoan Diseases
90-005962
Labeo calbasu
Digestive System
90-001738
Histology
90-001738
Labeo dyocheilus
Gill Parasites
90-005962
Myxobolus haldari
90-005962
Parasites/Diseases
90-005962
Protozoan Diseases
90-005962
Labeo gonius
Brain
90-002574
Early Development
90-002574
Hypothalamic-Hypophysial System
90-002574
Labeo mesops
Brood Stock
90-002200
Gonosomatic Index
90-002200
Reproduction
90-002200
Labeo molitorella
Culture/Propagation
90-001521
Labeo rohita
Age/Growth
90-005373
Cestodes
90-006002
Culture/Propagation
90-001562
90-003049
90-003071
90-003115
90-004926
90-005215
90-005373
Early Development
90-001814
Eggs
90-001814
Embryology
90-001814
Epidermis
90-001737
Feeding Experiments
90-003115
Feeds
90-001562
90-005215
Food Conversion Efficiency
90-005373
Foods/Feeding
90-005215
90-005373
Fry Production
90-005373

...CONTINUED...
Labeo rohita
Gill Parasites
90-005962
Gills
90-000902
Glucose
90-005215
Heavy Metals
90-000902
Hematology
90-005215
Histology
90-000902
90-001737
Inbreeding
90-003049
Induced Maturation
90-001853
90-004926
Invertebrate Forage
90-003115
Mercury
90-000902
Metabolism
90-001814
Methyl Mercuric Chloride
90-000902
Myxobolus haldari
90-005962
Oxygen
90-001814
Parasites/Diseases
90-005962
90-006002
Polyploidy
90-003071
Protozoan Diseases
90-005962
Reproduction
90-004926
Senga pathankotensis
90-006002
Starvation
90-005215
Tank Culture
90-003115
Labeo victorianus
Competition
90-004512
Management/Research--Lakes
90-004512
Population Studies
90-004512
Labeotropheus fuelleborni
Aquariums
90-003148
Culture/Propagation
90-003148
Digestive System
90-003255
Foods/Feeding
90-003970
Spawning
90-003148
Labeotropheus trewavasae
Digestive System
90-003255
Labidesthes sicculus
Fertilization
90-001676
Foods/Feeding
90-000635

...CONTINUED...
Labidesthes sicculus
Management/Research--Lakes
90-000635
Reproductive System
90-001676
Sperm
90-001676
Labracinus cyclophthalmus
Aquariums
90-001600
Culture/Propagation
90-003150
Labridae
Coloration
90-005157
Evolution
90-001745
90-001746
Foods/Feeding
90-001746
90-002261
Hermaphroditism
90-005157
Jaws
90-001746
Lateral Line System
90-001745
Morphometry
90-001746
Predator/Prey Relationships
90-002261
Respiration
90-001808
Sexual Dimorphism
90-005157
Variation Studies
90-001745
Labrisomus
Coexistence
90-004752
Management/Research--Marine
90-004752
Reef Fish Communities
90-004752
Labrisomus nuchipinnis
Coastal Habitat
90-004749
Distribution/Geographical
90-004749
Management/Research--Marine
90-004749
Population Studies
90-004749
Labrus ossifagus
Coloration
90-005311
Epidermis
90-005311
Melanophores
90-005311
Pigments
90-005311
Lactophrys quadricornis
Swimming Performance
90-001654
Laemonema globiceps
Morphology
90-002363
Laemonema laureysi
Morphology
90-002363
Lagodon rhomboides
Cadmium
90-002647
Foods/Feeding
90-003962
90-005758
Heavy Metals
90-002647
Meristic Studies
90-003271
Morphometry
90-003271
Pigments
90-003271
Regeneration
90-002647
Salinity
90-002647
Lamna nasus
Cardiovascular System
90-003213
Distribution/Geographical
90-004747
Exploitation Rates
90-004747
Harvest
90-004747
Heart
90-003213
Life History/General
90-004747
Management/Research--Marine
90-004747
Lampanyctus crocodilus
Distribution/Vertical
90-000615
Larval Behavior
90-000615
Lampetra aepyptera
Population Studies
90-004020
Lampetra appendix
Bayer 73
90-002106
Distribution/Geographical
90-005831
Fish Control/Removal
90-002106
Habitat Selection
90-002106
Lamprey Control
90-002106
Lampricides
90-002106
Larval Behavior
90-002106
Life History/General
90-002106
Population Studies
90-005831
Lampetra fluviatilis
Histology
90-003226
Kidneys
90-003226
Lampetra japonica
Collagen
90-003684
Cytology
90-000176
Light
90-000176

...CONTINUED...
Lampetra japonica
Nervous System
90-000369
Photoperiodism
90-000176
Photoreception
90-000176
90-000369
Pineal Body
90-000369
Variation Studies
90-003684
Vision
90-000176
Lampetra mori
Nervous System
90-000183
Lampetra planeri
Enzymes
90-000260
Lactate Dehydrogenase
90-000260
Temperature
90-000260
Lamprologus attenuatus
Spawning
90-005719
Lamprologus compressiceps
Spawning
90-005719
Lamprologus elongatus
Spawning
90-005719
Lamprologus lemairii
Spawning
90-005719
Lamprologus multifasciatus
Aquariums
90-001591
Culture/Propagation
90-001591
Spawning
90-001591
Territorial Behavior
90-001591
Lamprologus profundicola
Spawning
90-005719
Lamprologus toae
Management/Research--Lakes
90-001170
Parental Behavior
90-001170
Spawning
90-005719
Survival
90-001170
Lamprologus tretocephalus
Spawning
90-005719
Larimus fasciatus
Foods/Feeding
90-002271
Season
90-002271
Lates calcarifer
Age/Growth
90-003797
Ascorbic Acid
90-003568
Bacterial Diseases
90-003568

...CONTINUED...
Lates calcarifer
Bacterial Diseases
90-004108
90-004109
Cage Culture
90-003012
90-003090
90-003099
90-003101
90-004108
Cell Culture
90-003567
Columnaris Disease
90-004108
Culture/Propagation
90-001839
90-003012
90-003090
90-003093
90-003099
90-003101
90-003103
90-003797
90-004108
90-004109
90-004171
90-005001
90-005015
90-005016
90-005017
90-006387
Diets
90-005015
Disease Susceptibility
90-003568
Economic Value
90-006387
Economics
90-006387
Egg Composition
90-003274
Egg Production
90-001839
Extension Services
90-003101
Fatty Acids
90-003274
Fecundity
90-005001
Feeding Experiments
90-005016
Feeds
90-005016
Fish Kills
90-004171
Flexibacter columnaris
90-004108
Hormones
90-001839
90-003093
90-005001
Immune Response
90-003568
Induced Maturation
90-001839
90-003093
90-005001
Invertebrate Forage
90-003103
90-005015
90-005016

...CONTINUED...
Lates calcarifer
Invertebrate Forage
90-005017
Kidney Disease
90-003012
90-004196
Kudoa
90-005967
Larvae
90-005015
90-005016
90-005017
Lipid Composition
90-003274
Management/Research--Marine
90-006387
Metabolic Rates
90-003494
Oxygen
90-003494
Parasites/Diseases
90-003012
90-003568
90-004108
90-004109
90-004171
90-004196
90-005967
Protozoan Diseases
90-005967
Rearing Density
90-003090
90-003099
Social Behavior
90-003797
Spawning
90-005001
Sportfishing
90-006387
Stocking/Introductions
90-006387
Streptococcus
90-004109
Supplemental Stocking
90-006387
Survival
90-005015
Treatment
90-004109
Vibrio anguillarum
90-003568
Viral Diseases
90-004171
Vitamins
90-003568
Lates niloticus
Commercial Fishing
90-004616
Competition
90-004512
Economic Value
90-004636
Exotic Species
90-000992
90-004630
Exotic Species/Africa: Lake Victoria
90-002730
90-004512
90-005706
Exotic Species/Uganda: Lake Kyoga
90-004512

...CONTINUED...
Lates niloticus
Exploitation Rates
90-004616
Foods/Feeding
90-004630
Interspecies Relationships
90-005706
Life History/General
90-004620
90-004636
Management/Research--Lakes
90-000992
90-002730
90-004512
90-004604
90-004616
90-004630
90-004636
Population Studies
90-004512
Predator Introductions
90-004604
90-004620
90-004630
Predator/Prey Relationships
90-004630
Stocking/Introductions
90-000992
90-002730
90-004512
90-004604
90-004620
90-004630
Trophic Relationships
90-004604
Latimeria chalumnae
Distribution/Geographical
90-002144
90-002300
Endangered/Threatened Species
90-002988
Life History/General
90-002144
90-002300
Management/Research--Marine
90-002300
90-002988
Morphology
90-002144
Sanctuaries
90-002988
Lebistes reticulatus
Antifoulants
90-006225
Bacterial Diseases
90-005924
Mycobacterium fortuitum
90-005924
Parasites/Diseases
90-005924
Salinity
90-006225
Tributyltin
90-006225
Triphenyltin Chloride
90-006225
Lebistus reticularis
Industrial Wastes
90-002594
Malathion
90-002594

...CONTINUED...
Lebistus reticularis
Pesticides
90-002594
Phosalone
90-002594
Leiocassis nitidus
Osteology
90-001701
Taxonomy
90-001701
Leiocassis ussuriensis
Osteology
90-001701
Taxonomy
90-001701
Leiognathus brevirostris
Bays
90-002959
Drift Algae
90-002959
Management/Research--Marine
90-002959
Nursery Areas
90-002959
Leiostomus xanthurus
Burrowing Behavior
90-000488
Coastal Habitat
90-001413
Competition
90-002334
Culture/Propagation
90-005069
Cytochrome P450
90-006232
Distribution/Factors of
90-005736
Distribution/Geographical
90-002317
Fenthion
90-000919
Foods/Feeding
90-000488
90-005754
Fungal Diseases
90-004140
Hooking/Handling Mortality
90-005069
Insecticides
90-000919
Larval Drift
90-002317
90-005736
Life History/General
90-002782
Management/Research--Estuaries
90-006661
Management/Research--Marine
90-001413
Marking/Tagging
90-005754
Metabolic Rates
90-000333
Nursery Areas
90-002782
90-006661
Organophosphates
90-000919
Parasites/Diseases
90-002370
90-004140

...CONTINUED...
Leiostomus xanthurus
Polycyclic Aromatic Hydrocarbons
90-006232
Population Studies
90-001413
Predator/Prey Relationships
90-002334
Recruitment
90-002782
90-006661
Salinity
90-000333
90-005069
Temperature
90-000333
Tides
90-005736
Transportation
90-005069
Ulcer Disease
90-004140
Lentipes concolor
Electrophoresis
90-003646
Evolution
90-003646
Islands
90-003646
Management/Research--Rivers and Streams
90-003646
Population Genetics
90-003646
Proteins
90-003646
Recruitment
90-003646
Variation Studies
90-003646
Lepidion lepidion
Foods/Feeding
90-003927
Lepidocephalus thermalis
Endosulfan
90-002564
Insecticides
90-002564
Lepidogalaxias salamandroides
Aestivation
90-001650
90-005565
Air Breathing
90-001650
Fertilization
90-000361
Lipid Content
90-005565
Reproduction
90-000361
90-005565
Respiratory System
90-001650
Swimbladder
90-001650
Lepidonotothen squamifrons squamifrons
Fecundity
90-002216
Maturation
90-002216
Reproduction
90-002216

Lepidopsetta bilineata
Foods/Feeding
90-005781
Harvest
90-003814
Interspecies Relationships
90-005781
Life History/General
90-003814
Lepidorhombus boscii
Behavior
90-000903
Foods/Feeding
90-000903
Heavy Metals
90-000903
90-002571
Hematology
90-002571
Liver
90-002571
Mercury
90-000903
90-002571
Musculature
90-002571
Pollution
90-000903
Proteins
90-002571
Lepisosteus oculatus
Biosorption
90-002560
Parasites/Diseases
90-004228
Pollution
90-002560
Rhipidocotyle lepisostei
90-004228
Trematodes
90-004228
Lepisosteus osseus
Biosorption
90-002560
Pollution
90-002560
Lepisosteus platyrhincus
Lateral Line System
90-005163
Lepisosteus spatula
Cytology
90-003420
Endocrinology
90-003420
Gear Selectivity
90-006423
Longlines
90-006423
Nets/Gill Nets
90-006423
Pituitary Gland
90-003420
Lepomis
Abnormalities
90-001651
Backwater Lakes
90-001291
Evolution
90-003652
Habitat Selection
90-001291

...CONTINUED...

Lepomis
Habitat Selection
90-006579
Head
90-001651
Ichthyoplankton
90-001339
90-002824
Injuries
90-001651
Management/Research--Reservoirs
90-001339
Management/Research--Rivers and Streams
90-001291
90-006579
Microhabitat
90-001291
Morphology
90-000707
Nursery Areas
90-001291
90-002824
Osteology
90-000707
Population Studies
90-006579
Sportfishing
90-006284
Taxonomy
90-000707
Urban Fishing
90-006284
Lepomis auritus
Age/Growth
90-000665
Bioaccumulation
90-006215
Evolution
90-001700
Foods/Feeding
90-001700
Otoliths
90-000665
Polychlorinated Biphenyls
90-006215
Population Studies
90-005831
Predator/Prey Relationships
90-001700
Lepomis cyanellus
Agonistic Behavior
90-002104
Interspecies Relationships
90-002104
Niche Overlaps
90-002104
Predator/Prey Relationships
90-002254
Wetlands
90-004464
Lepomis gibbosus
Beaver Ponds
90-004686
Evolution
90-001700
Foods/Feeding
90-000646
90-001700
Molluscs
90-000646

...CONTINUED...
Lepomis gibbosus
Predator/Prey Relationships
90-000646
90-001700
Lepomis gulosus
Wetlands
90-004464
Lepomis macrochirus
Abundance/Factors of
90-002856
90-006504
Activity Patterns
90-000509
Age/Growth
90-000670
90-002844
90-003957
Behavior
90-000913
90-002584
90-006116
90-006196
Benzo(a)pyrene
90-002648
Bioaccumulation
90-006215
Bioenergetics
90-006501
Biological Monitoring
90-002492
90-002584
Biosorption
90-004370
Cadmium
90-002584
Chlorinated Hydrocarbons
90-006116
Competition
90-006647
Copper
90-000913
Courtship
90-005513
Cytology
90-002568
Diagnostic Techniques
90-004167
Digestive System
90-003529
Dyes
90-006115
Escape Behavior
90-005519
Esters
90-004370
Exotic Species/Canada: British Columbia
90-005606
Fishing Tournaments
90-002843
Food Supply
90-002844
90-003747
90-005588
90-006501
Foods/Feeding
90-000635
90-000913
90-003940
90-003957
90-005519

...CONTINUED...
Lepomis macrochirus
Foods/Feeding
90-005525
90-005751
90-006501
90-006656
Fright Behavior
90-003747
90-005519
Habitat Alterations
90-002856
Habitat Evaluation
90-006648
Habitat Improvement/General
90-004695
Habitat Selection
90-003747
90-003940
90-005519
90-005525
90-005588
90-006501
90-006504
90-006760
Heavy Metals
90-000913
90-002568
90-002584
Herbicides
90-004370
Infectious Hematopoietic Necrosis
90-004167
Insecticides
90-002584
90-006196
Lake Classification
90-006648
Lead
90-002568
Life History/General
90-005606
Malathion
90-002641
90-006196
Management/Research--Estuaries
90-004695
Management/Research--General
90-006378
Management/Research--Lakes
90-000635
90-002843
90-002844
90-002856
90-006504
Management/Research--Reservoirs
90-006375
90-006647
90-006648
90-006656
Management/Research--Rivers and Streams
90-006760
Microhabitat
90-006760
Molybdenum
90-002588
Mutagens
90-002648
Myxobolus corneus
90-005959

...CONTINUED...
Lepomis macrochirus
Nursery Areas
90-006504
Otoliths
90-000670
Parasites/Diseases
90-004167
90-005959
Peptides
90-003529
Pollution
90-000913
90-002584
Polychlorinated Biphenyls
90-006215
Population Studies
90-002844
90-002856
90-005831
Predator/Prey Relationships
90-003747
90-003957
Protozoan Diseases
90-005959
Respiration
90-002584
90-006116
Respiratory System
90-002492
Spawning
90-005513
Sportfishing
90-002843
90-006378
Stocking/Introductions
90-005606
Stress
90-002492
Survival
90-003957
90-005606
Temperature
90-002844
90-006501
Temperature Selection
90-005588
90-006501
Territorial Behavior
90-005513
Toxicity Testing
90-006116
Trophic Relationships
90-002856
90-006647
90-006656
Variation Studies
90-005513
Viral Diseases
90-004167
Wetlands
90-004464
90-004695
Xenobiotics
90-004370
Zinc
90-002584
Lepomis macrochirus macrochirus
Genetic Strains
90-005381
Temperature
90-005381
...CONTINUED...
Lepomis macrochirus macrochirus
Thermal Tolerance
90-005381
Lepomis macrochirus purpurescens
Genetic Strains
90-005381
Temperature
90-005381
Thermal Tolerance
90-005381
Lepomis punctatus
Distribution/Geographical
90-005832
90-005856
Lepomis symmetricus
Distribution/Geographical
90-005832
Karyotypes
90-003714
Variation Studies
90-003714
Leporinus friderici
Biochemical Composition
90-002069
Culture/Propagation
90-005748
Electrophoresis
90-000466
90-002069
Foods/Feeding
90-005748
Hematology
90-000351
Stock Identification
90-000466
Variation Studies
90-000466
90-002069
Leporinus granti
Electrophoresis
90-000466
Stock Identification
90-000466
Variation Studies
90-000466
Leporinus lebaili
Electrophoresis
90-000466
Stock Identification
90-000466
Variation Studies
90-000466
Leporinus steyermarki
Electrophoresis
90-000466
Stock Identification
90-000466
Variation Studies
90-000466
Leptobarbus hoeveni
Culture/Propagation
90-004159
90-004926
Induced Maturation
90-004926
Parasites/Diseases
90-004159
Piscinoodinium pillulare
90-004159
Pond Culture
90-004159

...CONTINUED...
Leptobarbus hoeveni
Protozoan Diseases
90-004159
Reproduction
90-004926
Leptocottus armatus
Lateral Line System
90-003268
Lestidiops affinis
Eyes
90-000186
Lesueurigobius sanzoi
Early Development
90-000556
Life History/General
90-000556
Spawning
90-000556
Lethrinus choerorhynchus
Age/Growth
90-003998
Length Frequencies
90-003998
Otoliths
90-003998
Lethrinus chrysostomus
Colobomatus icopaius
90-002459
Encotyllabe caballeroi
90-002460
Encotyllabe caranx
90-002460
Encotyllabe chironemi
90-002460
Fairfaxia lethrini
90-002438
Parasites/Diseases
90-002438
90-002459
90-002460
Parasitic Copepods
90-002459
Trematodes
90-002438
90-002460
Lethrinus nebulosus
Cestodes
90-002455
Grillotia heroniensis
90-002455
Hematology
90-005410
Oxygen
90-005410
Parasites/Diseases
90-002455
Leucaspius delineatus
Stocking/Introductions
90-006503
Trophic Relationships
90-006503
Leucaspius delineatus delineatus
Reproduction
90-000222
Leuciscus cephalus
Cadmium
90-004236
Commercial Fishing
90-004680
Compensatory Swimming
90-002122
...CONTINUED...
Leuciscus cephalus
Culture/Propagation
90-000235
Currents
90-002122
Exotic Species/Denmark
90-000995
Goussia janae
90-005968
Heavy Metals
90-000827
90-004236
Histology
90-001731
Hybridization
90-003724
Lead
90-004236
Mercury
90-004236
Musculature
90-001731
Orientation/Homing
90-002122
Parasites/Diseases
90-005968
90-005992
Protozoan Diseases
90-005968
Reproductive Cycle
90-000235
Season
90-001731
Spawning Cycle Regulation
90-000235
Sphaerostoma maius
90-005992
Swimming Performance
90-002122
Trematodes
90-005992
Variation Studies
90-001731
Leuciscus cephalus cabeda
Myxidium rhodei
90-000759
Parasites/Diseases
90-000759
Protozoan Diseases
90-000759
Leuciscus cephalus pyrenaicus
Age/Growth
90-000198
Length-Weight Relationships
90-000198
Management/Research--Rivers and Streams
90-006613
Trophic Relationships
90-006613
Leuciscus idus
Abundance/Factors of
90-004634
Age/Growth
90-003995
Commercial Fishing
90-004680
Hybridization
90-003724
Otoliths
90-003995

...CONTINUED...
Leuciscus idus
Water Quality
90-004634
Yield
90-004634
Leuciscus leuciscus
Age/Growth
90-003959
90-003995
Behavior
90-006100
Cadmium
90-004236
Competition
90-000491
Culture/Propagation
90-000235
Distribution/Vertical
90-000611
Foods/Feeding
90-000491
90-003959
Goussia janae
90-005968
Habitat Selection
90-000491
Heavy Metals
90-004236
90-006100
Interspecies Relationships
90-000491
Lead
90-004236
Life History/General
90-000491
Management/Research--Reservoirs
90-006649
Management/Research--Rivers and Streams
90-000491
Mercury
90-004236
90-006100
Otoliths
90-003995
Parasites/Diseases
90-005968
Protozoan Diseases
90-005968
Reproductive Cycle
90-000235
Spawning Cycle Regulation
90-000235
Trophic Relationships
90-003959
90-006649
Leuciscus rutilus
Biosorption
90-000847
Heavy Metals
90-000847
Management/Research--Lakes
90-000847
Mercury
90-000847
Pollution Abatement
90-000847
Selenium
90-000847
Leucobrotula adipata
Distribution/Geographical
90-005851
...CONTINUED...
Leucobrotula adipata
Meristic Studies
90-005851
Taxonomy
90-005851
Leuresthes tenuis
Age/Growth
90-005785
Early Development
90-005785
Foods/Feeding
90-003972
90-005785
Larval Behavior
90-003972
Survival
90-005785
Leuroglossus urotramus
Recruitment
90-005657
Lichia amia
Nursery Areas
90-006682
Lienardella fasciata
Aquariums
90-000136
Life History/General
90-000136
Lile stolifera
Management/Research--Estuaries
90-006666
Population Studies
90-006666
Limanda aspera
Foods/Feeding
90-005781
Interspecies Relationships
90-005781
Limanda ferruginea
Groundfish
90-006681
Laws/Law Enforcement
90-006681
Management/Research--Marine
90-006681
Regulations/Catch Limits
90-006681
Limanda herzensteini
Competition
90-000527
Foods/Feeding
90-000527
Interspecies Relationships
90-000527
Limanda limanda
Abundance/Factors of
90-004710
Age/Growth
90-000666
90-003983
Algal Blooms
90-004710
Bioaccumulation
90-004355
90-006153
Burrowing Behavior
90-003750
Cadmium
90-005644
Copper
90-006150

...CONTINUED...
Limanda limanda
Early Development
90-005644
Endocrinology
90-001796
90-001797
Food Supply
90-000666
Heavy Metals
90-005644
90-006150
Hexachlorobenzene
90-004355
90-006153
Induced Maturation
90-001796
90-001797
Life History/General
90-005644
Lipid Content
90-006153
Mammal Predation
90-000647
Management/Research--Estuaries
90-004698
90-004710
Maturation
90-001798
Nursery Areas
90-004698
90-004710
Overwintering
90-004698
Parasites/Diseases
90-002439
90-004251
Pollution
90-004251
Polychlorinated Biphenyls
90-004355
90-006153
Population Studies
90-000666
Predator/Prey Relationships
90-000647
90-003750
Salinity
90-000666
Steroids
90-001796
90-001797
90-001798
Temperature
90-000666
Turbidity
90-003750
X-cells
90-002439
Zinc
90-006150
Limanda sakhalinensis
Life History/General
90-003257
Morphology
90-003257
Taxonomy
90-003257
Limanda yokohamae
Competition
90-000527
Foods/Feeding
90-000527

...CONTINUED...
Limanda yokohamae
Interspecies Relationships
90-000527
Management/Research--Marine
90-004761
Population Studies
90-004761
Stock Assessment
90-004761
Liopsetta glacialis
Life History/General
90-003818
Population Studies
90-003818
Liparis
Nursery Areas
90-004697
Liparis callyodon
Age/Growth
90-003232
Early Development
90-003232
Fecundity
90-003232
Larval Identification
90-003232
Spawning
90-003232
Liparis fabricii
Distribution/Geographical
90-004010
Species Identification
90-000708
Taxonomy
90-004010
Liparis florae
Recruitment
90-002940
Liparis fucensis
Age/Growth
90-003232
Early Development
90-003232
Fecundity
90-003232
Larval Identification
90-003232
Spawning
90-003232
Liparis gibbus
Distribution/Geographical
90-004010
Species Identification
90-000708
Taxonomy
90-004010
Liparis koefoedi
Species Identification
90-000708
Liparis liparis
Distribution/Geographical
90-004010
Management/Research--Estuaries
90-005660
Population Studies
90-005660
Predator/Prey Relationships
90-003955
Species Identification
90-000708
Taxonomy
90-004010

Liparis montagui
Species Identification
90-000708
Liparis tunicatus
Distribution/Geographical
90-004010
Species Identification
90-000708
Taxonomy
90-004010
Lithognathus mormyrus
Ammonia
90-005204
Bioenergetics
90-005204
Excretory System
90-005204
Exercise
90-005204
Eyes
90-000228
Nursery Areas
90-006682
Lithoxus
Meristic Studies
90-005886
Taxonomy
90-005886
Lithoxus stocki
New Species
90-005886
Liza abu
Age/Growth
90-001526
Culture/Propagation
90-001526
90-002367
Lernaea cyprinacea
90-002367
Myxobolus pfeifferi
90-002367
Parasites/Diseases
90-002367
Parasitic Copepods
90-002367
Protozoan Diseases
90-002367
Trichodina domerguei
90-002367
Liza aurata
Overwintering
90-005376
Temperature
90-005376
Thermal Tolerance
90-005376
Winter
90-005376
Liza carinata
Bays
90-002959
Drift Algae
90-002959
Management/Research--Marine
90-002959
Nursery Areas
90-002959
Liza dumerili
Eggs
90-000208
Embryology
90-000208
Liza macrolepis
Management/Research--Estuaries
90-004694
Population Studies
90-004694
Stock Assessment
90-004694
Liza ramada
Age/Growth
90-001553
Amino Acids
90-003305
Atrazine
90-004316
Culture/Propagation
90-001553
90-004199
Enzymes
90-003305
Ergasilus
90-004199
Feeding Experiments
90-001553
Feeds
90-001553
Herbicides
90-004316
Musculature
90-003305
Parasites/Diseases
90-004199
Parasitic Copepods
90-004199
Recirculating Systems
90-001553
Salinity
90-004316
Liza richardsoni
Culture/Propagation
90-001658
Early Development
90-001658
Eggs
90-000208
Embryology
90-000208
Larvae
90-001658
Nursery Areas
90-006682
Pigments
90-001658
Liza saliens
Cytology
90-000332
Hypothalamic-Hypophysial System
90-000332
Thyroid Gland
90-000332
Lophiodes quinqueradiatus
Distribution/Geographical
90-002301
Taxonomy
90-002301
Lophiomus setigerus
Distribution/Geographical
90-002301
Taxonomy
90-002301
Lophius budegassa
Abundance/Factors of
90-003855

...CONTINUED...
Lophius budegassa
Management/Research--Marine
90-003855
Population Studies
90-003855
Lophius upsicephalus
Foods/Feeding
90-003938
Predator/Prey Relationships
90-003938
Lophogobius
Gonads
90-005125
Hermaphroditism
90-005125
Variation Studies
90-005125
Loricaria
Nematodes
90-006033
Parasites/Diseases
90-006033
Spirocamallanus cervicalatus
90-006033
Loricariidae
Early Development
90-005121
Jaws
90-005121
Osteology
90-005121
Reproductive System
90-001705
Variation Studies
90-005121
Lota lota
Abundance/Factors of
90-000972
90-004634
Acidification
90-004712
Age/Growth
90-001788
Bioaccumulation
90-004369
90-006235
Chlorinated Hydrocarbons
90-004369
Condition Factors
90-001949
Digestive System
90-000305
Egg Predation
90-005757
Enzymes
90-000305
Flow Regimes
90-006567
Foods/Feeding
90-002246
90-005757
Gear Selectivity
90-004522
Gonosomatic Index
90-002246
Habitat Alterations
90-000972
Heavy Metals
90-006235
Life History/General
90-000547

...CONTINUED...
Lota lota
Life History/General
90-002139
Management/Research--Lakes
90-004618
90-006507
Management/Research--Reservoirs
90-000547
Management/Research--Rivers and Streams
90-000972
Mercury
90-006235
Nets/Gill Nets
90-004522
Nets/Netting
90-004522
Olfaction
90-001961
Playas
90-004618
Population Studies
90-001788
Recruitment
90-004712
90-006567
Season
90-000305
90-001949
Trophic Relationships
90-004618
90-006507
Water Quality
90-004634
Weirs
90-000972
Yield
90-004634
Lota lota lota
Distribution/Geographical
90-002311
Taxonomy
90-002311
Variation Studies
90-002311
Zoogeography
90-002311
Loxodon
Electrophoresis
90-002059
Taxonomy
90-002059
Lucania parva
Variation Studies
90-001667
Lucioperca lucioperca
Commercial Fishing
90-004680
Lutjanidae
Condition Factors
90-000195
Evolution
90-005437
Length-Weight Relationships
90-000195
Lutjanus
Length Frequencies
90-006452
Lutjanus argentimaculatus
Cell Culture
90-003567

Lutjanus buccanella
Age/Growth
90-001668
Lutjanus campechanus
Lipid Composition
90-002970
Storage Effects
90-002970
Lutjanus carponotatus
Hematology
90-005410
Oxygen
90-005410
Lutjanus coccineus
Age/Length Composition
90-001056
Stock Assessment
90-001056
Lutjanus griseus
Abundance/Factors of
90-004732
Bays
90-004732
Cytochrome P450
90-003563
Endocrinology
90-003563
Exploitation Rates
90-006292
Habitat Selection
90-004732
Management/Research--Marine
90-004732
Marking/Tagging
90-002721
Marshes
90-006292
Parasites/Diseases
90-006041
Seagrass Beds
90-004732
Sportfishing
90-006292
Tumors
90-006041
Lutjanus kasmira
Age/Growth
90-002291
90-003998
Length Frequencies
90-003998
Otoliths
90-002291
90-003998
Lutjanus sebae
Muscle Proteins
90-002964
Musculature
90-002964
Storage Effects
90-002964
Temperature
90-002964
Lutjanus vivanus
Age/Growth
90-001722
Luvarus imperialis
Morphology
90-000207
Luxilus
Nervous System
90-001863
...CONTINUED...
Luxilus
Turbidity
90-001863
Vision
90-001863
Luxilus chrysocephalus
Nests/Nesting
90-000506
Sexual Dimorphism
90-000506
Lycodapus dermatinus
Distribution/Geographical
90-000678
Lycodapus endemoscotus
Distribution/Geographical
90-000678
Lycodapus fierasfer
Distribution/Geographical
90-000678
Lycodapus microchir
Distribution/Geographical
90-000678
Lycodapus psarostomatus
Distribution/Geographical
90-000678
Lythrurus
Nervous System
90-001863
Turbidity
90-001863
Vision
90-001863
Lythrypnus dalli
Foods/Feeding
90-000499
Lythrypnus zebra
Foods/Feeding
90-000499
Maccullochella peeli
Culture/Propagation
90-005971
Egg Composition
90-003274
Fatty Acids
90-003274
Ichthyophthirius multifiliis
90-005971
Lipid Composition
90-003274
Parasites/Diseases
90-005971
Protozoan Diseases
90-005971
Salinity
90-005971
Treatment
90-005971
Macquaria ambigua
Algae
90-000041
Culture/Propagation
90-000041
90-005971
Daphnia
90-000625
Distribution/Factors of
90-005731
Egg Composition
90-003274
Fatty Acids
90-003274

...CONTINUED...
Macquaria ambigua
Floodplains
90-005731
Foods/Feeding
90-000625
90-002083
Ichthyophthirius multifiliis
90-005971
Larval Behavior
90-002083
Larval Drift
90-005731
Lipid Composition
90-003274
Management/Research--Rivers and Streams
90-005731
Parasites/Diseases
90-005971
Plankton
90-000041
Pond Culture
90-000041
Predator/Prey Relationships
90-000625
90-002083
Protozoan Diseases
90-005971
Salinity
90-005971
Treatment
90-005971
Zooplankton
90-000041
Macquaria australasica
Egg Composition
90-003274
Fatty Acids
90-003274
Lipid Composition
90-003274
Macquaria novemaculeata
Culture/Propagation
90-003290
Early Development
90-003290
Egg Composition
90-003274
Fatty Acids
90-003274
Larvae
90-003290
Lipid Composition
90-003274
Swimbladder
90-003290
Macrodon ancylodon
Age/Growth
90-003987
90-003994
Foods/Feeding
90-003953
Genetic Diversity
90-003634
Harvest
90-004480
Management/Research--Marine
90-004480
Otoliths
90-003987
Macrognathus aculeatus
Histology
90-000178
...CONTINUED...
Macrognathus aculeatus
Pineal Body
90-000178
Macrognathus siamensis
Head
90-003201
Osteology
90-003201
Macrones nemurus
Electrophoresis
90-000442
90-000463
Fecundity
90-003432
Genetic Strains
90-000442
90-000463
Gonosomatic Index
90-003432
Isozymes
90-000463
Reproduction
90-003432
Sex Ratios
90-003432
Macropodus opercularis
Aggressive Behavior
90-003429
Behavior
90-002045
90-005453
Coloration
90-005505
Defensive Mechanisms
90-005505
Genetics
90-002045
Habitat Selection
90-005453
Nervous System
90-003429
Predator/Prey Relationships
90-005505
Macrourus berglax
Distribution/Factors of
90-000620
Life History/General
90-000620
Parasites/Diseases
90-004162
Protozoan Diseases
90-004162
Macrura reevesii
Age/Growth
90-003886
Reproduction
90-003886
Macruronus novaezelandiae
Acoustical Methods
90-004846
Age/Growth
90-001443
Marking/Tagging
90-001443
Otoliths
90-001443
Population Studies
90-004846
Strontium
90-001443
Makaira nigricans
Distribution/Vertical
90-005733

...CONTINUED...
Makaira nigricans
Foods/Feeding
90-004756
Management/Research--Marine
90-004756
Marking/Tagging
90-005733
Movements
90-005733
Osteology
90-001679
90-001707
Recreational Benefits
90-004756
Sportfishing
90-004756
Swimming Performance
90-001679
90-001707
Vertebral Counts
90-001679
Malacanthus plumieri
Colonization
90-005508
Polygyny
90-005508
Reef Fish Communities
90-005508
Social Behavior
90-005508
Mallotus villosus
Acoustical Methods
90-006418
Bird Predation
90-000651
Distribution/Factors of
90-000591
Egg Size
90-003322
Egg Survival
90-003322
Fish Preservation
90-004853
Gear Efficiency
90-006418
Habitat Selection
90-000591
Larvae
90-000864
Larval Drift
90-002226
Life History/General
90-003322
Management/Research--Marine
90-004052
Nets/Trawls
90-006418
Nursery Areas
90-004697
Population Studies
90-004052
Predator/Prey Relationships
90-000651
Recruitment
90-004052
Red Tides
90-000864
Schooling Behavior
90-000651
Spawning
90-000591

...CONTINUED...
Mallotus villosus
Survival
90-003322
Temperature
90-004052
Mallotus villosus socialis
Early Development
90-000587
Egg Survival
90-000587
Embryology
90-000587
Larvae
90-000587
Mallotus villosus villosus
Distribution/Geographical
90-004797
Foods/Feeding
90-000654
Management/Research--Marine
90-000654
Trophic Relationships
90-000654
Marcusenius isidori
Acoustico-Lateralis System
90-002092
Communication
90-002092
Courtship
90-002092
Electrical Communication
90-002092
90-005541
Mastacembelus armatus
Heliconema
90-006008
Heliconema kherai
90-006008
Nematodes
90-006008
Parasites/Diseases
90-006008
Maurolicus muelleri
Abundance/Factors of
90-005869
Currents
90-005869
Distribution/Vertical
90-000614
90-000615
90-005755
Foods/Feeding
90-005755
Ichthyoplankton
90-005869
Larval Behavior
90-000614
90-000615
Larval Drift
90-000614
90-005869
Trophic Relationships
90-005755
Zooplankton
90-005755
Meda fulgida
Habitat Selection
90-005569
Medialuna californiensis
Coloration
90-003262

...CONTINUED...
Medialuna californiensis
Distribution/Geographical
90-003262
Early Development
90-003262
Meristic Studies
90-003262
Pigments
90-003262
Megalaspis cordyla
Catch Per Unit Effort
90-004787
Distribution/Seasonal
90-004787
Megaloancistrus aculeatus
Parasites/Diseases
90-005960
Protozoan Diseases
90-005960
Trypanosoma guairaensis
90-005960
Megalobrama amblycephala
Cage Culture
90-000039
Culture/Propagation
90-000039
Environmental Impacts
90-000039
Megalops cyprinoides
Hematology
90-003520
Stress
90-003520
Meiacanthus lineatus
Leeches
90-002437
Parasites/Diseases
90-002437
Richardsonobdella lineatae
90-002437
Melamphaes lugubris
Osteology
90-003628
Predator/Prey Relationships
90-003628
Species Identification
90-003628
Melaniris chagresi
Abundance/Factors of
90-006658
Management/Research--Reservoirs
90-006658
Population Studies
90-006658
Species Diversity
90-006658
Melanochromis auratus
Digestive System
90-003255
Dominance
90-000515
Foods/Feeding
90-003970
Memory
90-000515
Size Hierarchies
90-000515
Social Behavior
90-000515
Melanochromis chipokae
Escape Behavior
90-003741
Melanochromis joanjohnstonae
Digestive System
90-003255
Foods/Feeding
90-003970
Melanogrammus aeglefinus
Abundance/Factors of
90-000582
90-003849
90-003910
Age/Growth
90-000662
90-002242
90-004569
Age/Length Composition
90-004734
Behavior
90-006404
Biomass
90-004813
Catch Per Unit Effort
90-004734
Cohort Analysis
90-004569
Commercial Fishing
90-004734
Competition
90-000662
Condition Factors
90-003986
Distribution/Geographical
90-004797
Distribution/Vertical
90-003905
90-003917
90-003986
Early Development
90-003986
Egg Drift
90-003885
90-003905
90-003910
90-003917
Egg Identification
90-006767
Egg Survival
90-003885
Fecundity
90-000593
90-003885
90-003894
Food Supply
90-000662
Foods/Feeding
90-000662
90-002242
Gear Efficiency
90-006402
90-006404
Groundfish
90-006681
Hexamita salmonis
90-005970
Hooks
90-006404
Larval Behavior
90-000617
Larval Drift
90-003899
90-003905
90-003910

...CONTINUED...
Melanogrammus aeglefinus
Laws/Law Enforcement
90-006681
Length Frequencies
90-004569
Longlines
90-006404
Management/Research--Marine
90-000582
90-004052
90-004557
90-004734
90-004813
90-006681
Maturation
90-000593
90-003894
Modeling
90-004557
Morphometry
90-003986
Mortality Factors
90-002242
90-005865
Mortality Rates
90-004591
90-005865
Movements
90-000617
Nets/Trawls
90-006402
Nutrition
90-003986
Parasites/Diseases
90-005970
Population Studies
90-004052
90-004734
Protozoan Diseases
90-005970
Recruitment
90-003849
90-004052
90-004557
Recruitment Curves
90-001086
Regulations/Catch Limits
90-006681
Reproduction
90-000593
90-003894
Season
90-003910
Spawning
90-003885
90-003894
Survival
90-002242
90-003849
Temperature
90-003885
90-004052
Time Series Analysis
90-001086
Weather
90-000582
Year Class Strength
90-000582
90-003849
Yield-per-Recruit
90-004557
Melanonous zugmayeri
Fatty Acids
90-000354
Osteology
90-000354
Pressure Effects
90-000354
Melanotaenia multisquamata
Condition Factors
90-005598
Life History/General
90-005598
Menidia audens
Competition
90-006377
Exotic Species/Oklahoma
90-006377
Forage Introductions
90-006377
Management/Research--Reservoirs
90-006377
Stocking/Introductions
90-006377
Trophic Relationships
90-006377
Menidia beryllina
Coexistence
90-004659
Electroshock
90-003496
Foods/Feeding
90-005790
90-006535
Insecticides
90-006144
Insects
90-006538
Management/Research--Lakes
90-006535
90-006538
Management/Research--Rivers and Streams
90-004659
Navigation Projects
90-003496
Organophosphates
90-006144
Plankton
90-006535
Population Studies
90-004659
Radiation
90-003496
Salinity
90-006144
Temperature
90-006144
Terbufos
90-006144
Trophic Relationships
90-005790
90-006535
90-006538
Menidia conchorum
Variation Studies
90-001667
Menidia menidia
Defensive Behavior
90-000518
Schooling Behavior
90-000518

...CONTINUED...
Menidia menidia
Sex Determination
90-003445
Menidia peninsulae
Sex Determination
90-003445
Menticirrhus ophicephalus
Lobatostoma veranoi
90-000797
Parasites/Diseases
90-000797
Trematodes
90-000797
Merlangius merlangus
Age/Growth
90-004004
Biomass
90-004813
Diclidophora merlangi
90-004214
Immune Response
90-004214
Management/Research--Estuaries
90-004698
Management/Research--Marine
90-004813
Mortality Rates
90-004591
Nursery Areas
90-004698
Otolith Preparation
90-004004
Overwintering
90-004698
Parasites/Diseases
90-004214
90-004251
Peptides
90-004214
Pollution
90-004251
Trematodes
90-004214
Merluccius
Evolution
90-003666
Osteology
90-003666
Zoogeography
90-003666
90-005462
Merluccius bilinearis
Age/Growth
90-000662
Competition
90-000662
Food Supply
90-000662
Foods/Feeding
90-000636
90-000662
Life History/General
90-005650
Marking/Tagging
90-002981
Recruitment
90-005650
Stock Assessment
90-002981
Stock Identification
90-002981
Merluccius capensis
Commercial Fishing
90-001365
Early Development
90-000160
90-000161
Foods/Feeding
90-000649
90-003951
Head
90-000160
90-000161
Life History/General
90-000557
Longlines
90-001365
Management/Research--Marine
90-001365
Migration
90-000557
Osteology
90-000160
90-000161
Predator/Prey Relationships
90-003938
Spawning
90-000557
Merluccius gayi
Amino Acids
90-000244
Liver
90-000244
Merluccius gayi peruanus
Recruitment
90-005657
Merluccius hubbsi
Abundance/Factors of
90-004059
Bacterial Flora
90-003488
Biomass
90-004575
90-004805
Catch Per Unit Effort
90-004790
Coexistence
90-003776
Cohort Analysis
90-004805
Culture/Propagation
90-004158
Currents
90-003919
Distribution/Factors of
90-003919
Distribution/Seasonal
90-003919
90-003922
90-004059
Embryology
90-003884
Exploitation Rates
90-004718
90-004805
Fish Preservation
90-004822
Fish Silage
90-004823
Food Technology
90-004823
90-004824

...CONTINUED...
Merluccius hubbsi
Food Technology
90-004836
Harvest
90-004790
Hematomas
90-004183
Interspecies Relationships
90-003776
Kudoa rosenbuschi
90-004158
Length-Weight Relationships
90-003922
Management/Research--Marine
90-004059
90-004545
90-004575
90-004718
90-004790
90-004805
90-004815
Maturation
90-003884
Migration
90-003919
90-003922
Parasites/Diseases
90-004183
Population Studies
90-004790
Pressure Effects
90-004183
Protozoan Diseases
90-004158
Recruitment
90-004815
Regulations/Limited Entry
90-004545
Reproductive Cycle
90-003884
Spawning
90-004815
Stock Assessment
90-004545
90-004575
90-004718
90-004815
Storage Effects
90-004821
90-004822
Taste and Odor Problems
90-004821
Year Class Strength
90-004545
Merluccius merluccius
Age/Growth
90-004004
DNA
90-003698
Electrophoresis
90-003698
Gear Selectivity
90-006399
Management/Research--Marine
90-006399
Mitochondria
90-003698
Otolith Preparation
90-004004
Population Genetics
90-003650

...CONTINUED...
Merluccius merluccius
Population Genetics
90-003698
Stock Assessment
90-006399
Stock Identification
90-003650
Storage Effects
90-004841
Merluccius paradoxus
Commercial Fishing
90-001365
Foods/Feeding
90-000649
Longlines
90-001365
Management/Research--Marine
90-001365
Merluccius productus
Fish Kills
90-000865
Food Supply
90-003961
Foods/Feeding
90-003961
Jurisdiction
90-006721
Mammal Predation
90-005868
Management/Research--Marine
90-006721
Population Studies
90-006721
Predator/Prey Relationships
90-000865
Trophic Relationships
90-003961
Zooplankton
90-003961
Microchirus variegatus
Age/Growth
90-003983
Microgadus proximus
Harvest
90-006700
Management/Research--Marine
90-006700
Recreational Benefits
90-006700
Sportfishing
90-006700
Microgadus tomcod
Currents
90-000616
Distribution/Factors of
90-000616
Distribution/Vertical
90-000616
90-006667
Ichthyoplankton
90-006667
Larval Behavior
90-000616
Larval Drift
90-000616
90-006667
Management/Research--Estuaries
90-000616
90-006667
Nursery Areas
90-000616

...CONTINUED...
Microgadus tomcod
Nursery Areas
90-006667
Micromesistius poutassou
Distribution/Geographical
90-004797
Echo Sounder
90-004847
Electrophoresis
90-003471
Muscle Proteins
90-003471
Micrometrus minimus
Age/Growth
90-002294
Early Development
90-002294
Embryology
90-002294
Otoliths
90-002294
Micropogonias furnieri
Cucullanus elongatus
90-006046
Egg Drift
90-004703
Food Technology
90-004836
Genetic Diversity
90-003634
Harvest
90-004480
Helminths
90-006046
Larval Drift
90-004703
Life History/General
90-005616
Management/Research--Marine
90-004480
Nursery Areas
90-004703
Parasites/Diseases
90-006046
Micropogonias undulatus
Aroclor
90-006220
Benzo(a)pyrene
90-006220
Bioluminescence
90-000925
Biosorption
90-002560
Cadmium
90-006220
Catch Per Unit Effort
90-004808
Coastal Habitat
90-001413
Commercial Fishing
90-004808
Cryopreservation
90-006756
Dikes
90-004455
Distribution/Geographical
90-002317
Endocrinology
90-003510
90-003512
90-006220

...CONTINUED...
Micropogonias undulatus
Erosion Control
90-004455
Fish Kills
90-004307
Fungal Diseases
90-004140
Gear Selectivity
90-002732
Harvest
90-004808
Heavy Metals
90-006220
Induced Maturation
90-003512
Larval Drift
90-002317
Lead
90-006220
Life History/General
90-002782
Lipid Composition
90-002970
Management/Research--Estuaries
90-006661
Management/Research--General
90-004455
Management/Research--Marine
90-001413
90-004808
Marshes, Salt
90-004455
Maturation
90-003510
Nets/Pound Nets
90-002732
Nets/Seines
90-002732
Nets/Trawls
90-004808
Nursery Areas
90-002782
90-004455
90-006661
Parasites/Diseases
90-002370
90-004140
Phagocytosis
90-000925
Pollution
90-002560
Population Studies
90-001413
Recruitment
90-002782
90-006661
Red Tides
90-004307
Reproductive System
90-006220
Salinity
90-004307
Sperm
90-006756
Sperm Preservation
90-006756
Steroids
90-003510
90-003512
Storage Effects
90-002970

...CONTINUED...
Micropogonias undulatus
Toxic Algae
90-004307
Toxicity Testing
90-006220
Tributyltin
90-000925
Ulcer Disease
90-004140
Micropterus
Morphology
90-000707
Osteology
90-000707
Taxonomy
90-000707
Micropterus dolomieui
Abundance/Factors of
90-002879
90-005870
Acidification
90-000888
Activity Patterns
90-000509
Age/Growth
90-000665
Behavior
90-000888
Bioaccumulation
90-002542
Cardiovascular System
90-001758
Catch Per Unit Effort
90-004860
Climate
90-005870
Competition
90-002874
Courtship
90-000522
Digestive System
90-005271
Dioxin
90-002542
Distribution/Factors of
90-005870
Distribution/Seasonal
90-005735
DNA
90-000470
Electrofishing
90-004860
Exotic Species/Denmark
90-000995
Feeds
90-005271
Fishing Tournaments
90-003908
Flow Regimes
90-002879
Foods/Feeding
90-000888
Gear Efficiency
90-004860
Habitat Alterations
90-002879
Habitat Selection
90-001245
Hardness
90-000379
Heart
90-001758

...CONTINUED...
Micropterus dolomieui
Impoundment
90-002879
Interspecies Relationships
90-002874
Length-Weight Relationships
90-006654
Light
90-004860
Management/Research--Lakes
90-002697
90-003908
Management/Research--Reservoirs
90-001320
90-006654
Management/Research--Rivers and Streams
90-001245
90-002874
90-002879
90-004669
90-005735
90-006609
Marking/Tagging
90-003908
Movements
90-003908
90-005735
Otoliths
90-000665
Overwintering
90-000379
pH
90-000379
90-000888
Pollution
90-000888
Population Studies
90-001245
90-002874
90-004669
90-006654
Predator/Prey Relationships
90-002874
Regulations/Limited Entry
90-004669
Sampling
90-004860
Season
90-005735
Spawning
90-000522
Sportfishing
90-006609
Starvation
90-000379
Stocking/Introductions
90-001320
Temperature
90-000379
90-001758
Temperature Selection
90-005735
Thermal Pollution
90-002697
Toxicity Testing
90-000888
Trophic Relationships
90-002542
90-002874
Variation Studies
90-000470

...CONTINUED...
Micropterus dolomieui
Winter
90-000379
Zoogeography
90-005870
Micropterus punctulatus
Habitat Selection
90-006579
Management/Research--Rivers and Streams
90-006579
Population Studies
90-006579
Micropterus salmoides
Activity Patterns
90-000509
90-000512
Aeromonas hydrophila
90-004128
Aeromonas salmonicida
90-004128
Age/Growth
90-000512
90-001959
90-002844
90-005809
90-005810
Bacterial Diseases
90-004128
Bioaccumulation
90-004339
Biosorption
90-002560
Brood Stock
90-000989
Carotenoids
90-003475
Climate
90-005809
90-006460
90-006471
Competition
90-006647
Contracaecum
90-006042
Crayfish
90-000146
Culture/Propagation
90-000046
90-000146
90-000989
90-002562
90-004992
Diets
90-001959
Digestive System
90-005271
Diplostomum
90-006042
Eutrophication
90-001134
Exotic Species/Canada: British Columbia
90-005606
Exotic Species/Denmark
90-000995
Exotic Species/Kenya
90-005703
Exploitation Rates
90-006455
Fecundity
90-005703

...CONTINUED...
Micropterus salmoides
Feeds
90-005271
Fertilization/Soil and Water
90-004992
Fingerling Production
90-004992
Fish Control/Removal
90-006512
Fish Kills
90-002562
Fishing Tournaments
90-002843
90-003908
Food Supply
90-002844
Foods/Feeding
90-000634
90-000635
90-001134
90-005703
Forecasting
90-006460
90-006471
Gonosomatic Index
90-005703
Habitat Alterations
90-006460
Habitat Evaluation
90-006648
Habitat Selection
90-005512
90-006760
Heavy Metals
90-004339
Helminths
90-006042
Hormones
90-000046
Ichthyoplankton
90-001339
Illegal Harvest
90-006455
Invertebrate Forage
90-000146
90-004992
Lake Classification
90-006648
Life History/General
90-005606
Management/Research--General
90-006378
Management/Research--Lakes
90-000635
90-001134
90-002843
90-002844
90-003908
90-005703
90-005810
90-006460
90-006471
90-006512
90-006516
Management/Research--Ponds
90-006644
Management/Research--Reservoirs
90-001339
90-006360
90-006375
90-006647

...CONTINUED...
Micropterus salmoides
Management/Research--Reservoirs
90-006648
Management/Research--Rivers and Streams
90-006760
Marking/Tagging
90-000512
90-000989
90-003908
Marshes
90-000512
Marshes, Salt
90-005810
Maximum Sustainable Yield
90-006471
Medication In Diets
90-000046
Mercury
90-004339
Microhabitat
90-006760
Movements
90-003908
Nests/Nesting
90-005512
Osmoregulation
90-000512
Oxbow Lakes
90-005810
Parasites/Diseases
90-004128
90-006042
Photoperiodism
90-001890
Pollution
90-002560
Pomphorhynchus bulbocolli
90-006042
Pond Culture
90-004992
Population Studies
90-002844
90-006360
90-006644
Predator/Prey Relationships
90-000146
90-000655
90-002276
90-006460
Proteocephalus ambloplites
90-006042
Recreational Benefits
90-006455
Regulations/Catch and Release
90-006455
Regulations/Size Limits
90-006360
90-006455
Reproduction
90-005703
Reproductive Cycle
90-001959
Salinity
90-000512
90-005810
Sex Determination
90-000046
Spawning Substrates
90-005512
Sportfishing
90-002843

...CONTINUED...
Micropterus salmoides
Sportfishing
90-006284
90-006378
Steroids
90-000046
Stocking/Introductions
90-005606
90-005703
90-006512
90-006516
Survival
90-005606
Swimming Performance
90-001890
Temperature
90-002844
90-005809
Trophic Relationships
90-001134
90-006460
90-006512
90-006516
90-006647
Trophic Status
90-001134
Tropics
90-005703
Urban Fishing
90-006284
Wetlands
90-004464
Winterkill
90-001134
90-002562
Micropterus salmoides floridanus
Culture/Propagation
90-003086
Foods/Feeding
90-005766
Genetic Strains
90-003086
90-005766
Hybridization
90-000457
90-003086
Otoliths
90-000457
Variation Studies
90-000457
Micropterus salmoides salmoides
Culture/Propagation
90-003086
Foods/Feeding
90-005766
Genetic Strains
90-003086
90-005766
Hybridization
90-000457
90-003086
Otoliths
90-000457
Variation Studies
90-000457
Micropterus treculi
Environmental Impacts
90-003005
Hatchery/Wild Populations
90-003005
Microstomus kitt
Age/Growth
90-004004

...CONTINUED...
Microstomus kitt
Otolith Preparation
90-004004
Microstomus pacificus
Harvest
90-003814
Life History/General
90-003814
Millerigobius macrocephalus
Distribution/Geographical
90-004016
Mimagoniates
Fish Lists/Keys
90-004076
Mimagoniates rheocharis
New Species
90-004076
Mimagoniates sylvicola
New Species
90-004076
Mirogrex terraesanctae
Management/Research--Lakes
90-002185
Spawning
90-002185
Water Level Fluctuations
90-002185
Misgurnus anguillicaudatus
Appetite Stimulants
90-000281
Foods/Feeding
90-000281
Hybridization
90-003630
Nucleus Transplantation
90-003630
Peptides
90-000281
Misgurnus dabryanus
Hybridization
90-003630
Nucleus Transplantation
90-003630
Misgurnus fossilis
Metabolic Rates
90-005219
Musculature
90-005219
Swimming Performance
90-005219
Temperature
90-005219
Mobula mobular
Embryology
90-000191
Morphometry
90-000191
Moenkhausia sanctaefilomenae
Bacterial Diseases
90-004130
Mycobacterium chelonei
90-004130
Mycobacterium parafortuitum
90-004130
Mycobacterium vaccae
90-004130
Parasites/Diseases
90-004130
Mola mola
Aquariums
90-000075

...CONTINUED...
Mola mola
Culture/Propagation
90-000075
Momonatira paulini
Morphology
90-002363
New Species
90-002363
Monacanthus ciliatus
Aquariums
90-005077
Culture/Propagation
90-005077
Monacanthus hispidus
Aquariums
90-005077
Artificial Reefs
90-006716
Culture/Propagation
90-005077
Fish Aggregation Devices
90-006716
Management/Research--Marine
90-006716
Population Studies
90-006716
Monacanthus spinosissimus
Aquariums
90-001594
Crypsis
90-001594
Culture/Propagation
90-001594
Monocentris reedi
Morphology
90-000179
Morphometry
90-000179
Taxonomy
90-000179
Monodactylus falciformis
Eggs
90-000208
Embryology
90-000208
Monopterus albus
Cytochalasin
90-001998
Glucose
90-001998
Hematology
90-001998
Monopterus cuchia
Air Breathing
90-001717
Cardiovascular System
90-001717
Head
90-001717
Respiratory System
90-001717
Moojenichthys
Taxonomy
90-005877
Moojenichthys myersi
Head
90-005877
Morphology
90-005877
Taxonomy
90-005877

Morone americana
Abundance/Factors of
90-006621
Age/Growth
90-003957
90-005560
Bacterial Diseases
90-002404
Bioaccumulation
90-002542
Climate
90-006093
Colonization
90-006093
Competition
90-005560
Copper
90-002468
Diagnostic Techniques
90-002404
Digestive Rate
90-005772
Dioxin
90-002542
Distribution/Factors of
90-006093
Evacuation
90-005772
Flow Regimes
90-006621
Foods/Feeding
90-003957
90-005772
Habitat Alterations
90-006621
Interspecies Relationships
90-005560
Liver
90-002468
Management/Research--Lakes
90-005560
90-006093
Management/Research--Rivers and Streams
90-006621
Mortality Rates
90-006093
Niche Overlaps
90-005560
Parasites/Diseases
90-002404
Pasteurella piscicida
90-002404
Pollution Detection
90-002468
Population Studies
90-005560
90-005712
Predator/Prey Relationships
90-003957
Recruitment
90-005712
Survival
90-003957
Toxicity Testing
90-002468
Trophic Relationships
90-002542
Winterkill
90-006093
Morone chrysops
Age/Growth
90-003717

...CONTINUED...

Morone chrysops
Age/Growth
90-003992
90-004991
Bioenergetics
90-003717
Culture/Propagation
90-004948
90-004982
90-004991
90-005031
90-005054
Fatty Acids
90-006758
Feeding Experiments
90-004991
90-005031
90-005054
Feeds
90-005031
Fingerling Production
90-004948
Foods/Feeding
90-005031
Hatchery/Wild Populations
90-006758
Hybridization
90-003717
90-004948
90-004982
90-004991
90-005031
90-005054
90-006758
Invertebrate Forage
90-005054
Larvae
90-005031
90-005054
Laws/Law Enforcement
90-006758
Otoliths
90-003992
Photoperiodism
90-004991
Rearing Density
90-004948
Scales
90-003992
Spines
90-003992
Survival
90-003717
Temperature
90-004991
Thermal Tolerance
90-004991
Variation Studies
90-003717
Morone saxatilis
Abundance/Factors of
90-005684
90-006673
Aeration
90-001524
Age/Growth
90-000546
90-003717
90-004991
90-005716
90-005795

...CONTINUED...
Morone saxatilis
Antifoulants
90-002635
Bacterial Diseases
90-004103
90-005916
Bioaccumulation
90-006091
90-006200
Bioenergetics
90-003717
Biological Monitoring
90-006245
Biotelemetry
90-000521
Brackishwater Culture
90-001524
90-003056
Brood Stock
90-005716
Calcium
90-004961
90-005068
Climate
90-006314
Condition Factors
90-001912
90-001970
90-003408
Copper Sulfate
90-004379
Culture/Propagation
90-000036
90-000065
90-000101
90-001524
90-003056
90-004206
90-004948
90-004949
90-004959
90-004961
90-004982
90-004991
90-005031
90-005054
90-005068
90-005716
Distribution/Factors of
90-006314
DNA
90-003629
90-005448
Early Development
90-000546
90-001678
90-001783
90-005716
Edwardsiella ictaluri
90-005916
Egg Survival
90-000546
90-005716
Electroshock
90-003496
Endocrinology
90-003295
Epidermal Lesions
90-004206
Epidermis
90-004206

...CONTINUED...
Morone saxatilis
Fatty Acids
90-006758
Feeding Experiments
90-004991
90-005031
90-005054
Feeds
90-000101
90-005031
Fertilization
90-003056
Fertilization/Soil and Water
90-001524
90-004959
Fingerling Production
90-000101
90-004948
Fish Kills
90-006091
Foods/Feeding
90-005031
Formalin
90-004379
Freshwater Inflow
90-005701
90-006673
Habitat Selection
90-000494
90-000521
90-005563
90-005582
90-005730
Hardness
90-004949
Hatchery/Wild Populations
90-006758
Heavy Metals
90-006200
Hematology
90-003408
Hooking/Handling Mortality
90-005068
Hooking/Handling Stress
90-005068
Hormones
90-001783
Hybridization
90-000036
90-000065
90-003717
90-004948
90-004982
90-004991
90-005031
90-005054
90-006758
Hypoxia
90-006314
Ichthyoplankton
90-001339
Immune Response
90-003705
Inflammatory Response
90-004206
Invertebrate Forage
90-005054
Kidneys
90-004206
Larvae
90-004949

...CONTINUED...
Morone saxatilis
Larvae
90-005031
90-005054
Latitude
90-005795
Laws/Law Enforcement
90-006758
Life History/General
90-000539
90-000546
90-005612
Management/Research--Estuaries
90-005701
90-006673
Management/Research--General
90-000539
Management/Research--Ponds
90-003056
Management/Research--Reservoirs
90-000494
90-000521
90-001339
90-004310
90-005684
Management/Research--Rivers and Streams
90-005582
Marking/Tagging
90-000521
Maturation
90-003295
90-005716
Migration
90-000494
Mitochondria
90-003629
90-005448
Mortality Rates
90-000546
Movements
90-000521
90-005563
90-005730
Navigation Projects
90-003496
Nursery Areas
90-005701
Nutrition
90-001912
90-001970
Oxygen
90-004310
90-006314
Paints
90-002635
Parasites/Diseases
90-004103
90-004206
90-005916
Photoperiodism
90-004991
Pollution
90-002572
90-002578
90-006091
Polychlorinated Biphenyls
90-002578
Polyculture
90-000036
Pond Culture
90-003056

...CONTINUED...
Morone saxatilis
Pond Culture
90-004959
Population Genetics
90-003629
Population Studies
90-002572
Predator/Prey Relationships
90-003056
Proteins
90-003408
Public Health Problems
90-002572
Radiation
90-003496
Rearing Density
90-004948
Recruitment
90-001912
90-001970
90-005684
90-005701
90-006673
Reproduction
90-001912
90-001970
90-005701
Reproductive Cycle
90-003295
Rice-Fish Culture
90-004959
Risk Analysis
90-002572
Salinity
90-004379
90-004949
Season
90-005795
Selenium
90-006200
Sodium
90-005068
Spawning
90-006673
Starvation
90-001912
Steroids
90-003295
Stock Assessment
90-006481
Stock Identification
90-003705
90-006481
Streptococcus
90-004103
Stress
90-004961
90-005068
Summerkill
90-004310
Survival
90-003717
90-004961
90-005068
90-005716
Swimbladder
90-001678
Tank Culture
90-000101
Temperature
90-000494

...CONTINUED...
Morone saxatilis
Temperature
90-004310
90-004991
90-005582
90-006314
90-006673
Thermal Tolerance
90-004991
Thyroid Gland
90-001783
Toxicity Testing
90-002572
90-002578
90-006245
Toxicology
90-002607
Transportation
90-004961
90-005068
Tributyltin
90-002635
Trophic Relationships
90-003056
Variation Studies
90-003629
90-003705
90-003717
90-005448
Vitellogenin
90-003295
Water Quality
90-001524
90-002607
90-004310
90-004949
Moxostoma
Coexistence
90-003779
Courtship
90-003779
Spawning
90-003779
Territorial Behavior
90-003779
Moxostoma duquesnei
Distribution/Geographical
90-005671
Population Studies
90-005671
Moxostoma rhothoecum
Habitat Selection
90-006598
Mugil
Brackishwater Culture
90-003051
Culture/Propagation
90-003051
Mangroves
90-003051
Site Suitability
90-003051
Mugil auratus
Aroclor
90-004240
Biological Monitoring
90-004240
Naphthoflavone
90-004240
Mugil cephalus
Bacterial Flora
90-000375

...CONTINUED...
Mugil cephalus
Biosorption
90-004377
Culture/Propagation
90-001521
90-004934
DDT
90-006192
Distribution/Geographical
90-002303
90-005832
90-005858
Economics
90-004934
Endosulfan
90-006192
Epidermal Lesions
90-000784
Feeds
90-004934
Ichthyoplankton
90-002303
Induced Maturation
90-000256
Islands
90-003861
Life History/General
90-006677
Lindane
90-006192
Lipid Composition
90-002970
Lipid Metabolism
90-005310
Management/Research--Estuaries
90-003861
90-006192
90-006677
Marking/Tagging
90-002721
Maturation
90-003428
Myxobolus spinacurvatura
90-004153
Nursery Areas
90-006677
Parasites/Diseases
90-000784
90-004153
90-004228
90-005901
Pesticides
90-006192
Photoperiodism
90-003428
Phthalate Esters
90-004377
Pollution
90-006192
Polyculture
90-004934
Population Studies
90-003861
Protozoan Diseases
90-004153
Red Sore Disease
90-000784
Reproductive Cycle
90-003428
Reproductive System
90-000256

...CONTINUED...
Mugil cephalus
Rhipidocotyle lepisostei
90-004228
Season
90-003861
Sperm
90-000256
Storage Effects
90-002970
Trematodes
90-004228
Tropics
90-006192
Variation Studies
90-006677
Xenobiotics
90-004377
Mugil curema
Aromatic Hydrocarbons
90-002579
Benzene
90-002579
Cienegas
90-005770
Distribution/Geographical
90-002303
Foods/Feeding
90-005770
Ichthyoplankton
90-002303
Management/Research--Estuaries
90-006666
Management/Research--Rivers and Streams
90-005770
Marking/Tagging
90-002721
Metamicrocotyla macracantha
90-005998
Parasites/Diseases
90-005998
Population Studies
90-006666
Rotenone
90-002655
Trematodes
90-005998
Trophic Relationships
90-005770
Mugil dussumieri
Diets
90-003117
Mugil incilis
Cienegas
90-005770
Foods/Feeding
90-005770
Management/Research--Rivers and Streams
90-005770
Trophic Relationships
90-005770
Mugil liza
Cienegas
90-005770
Digestive System
90-003223
Egg Drift
90-004703
Foods/Feeding
90-003223
...CONTINUED...
Mugil liza
Foods/Feeding
90-005770
Histology
90-003223
Larval Drift
90-004703
Management/Research--Rivers and Streams
90-005770
Nursery Areas
90-004703
Trophic Relationships
90-005770
Mugil ramada
Brain
90-000342
Growth Hormone
90-000342
Hypothalamic-Hypophysial System
90-000342
Pituitary Gland
90-000342
Mugil speigleri
Brood Stock
90-001537
Culture/Propagation
90-001537
Hybridization
90-001537
Mugil subviridis
Brood Stock
90-001537
Culture/Propagation
90-001537
Hybridization
90-001537
Mullidae
Forecasting
90-006492
Mulloidichthys flavolineatus
Foods/Feeding
90-002240
Mullus barbatus
Abundance/Factors of
90-002762
Bioaccumulation
90-002475
Chromium
90-002475
Foods/Feeding
90-002240
Life History/General
90-002146
Management/Research--Marine
90-002762
Mullus surmuletus
Abundance/Factors of
90-004702
Foods/Feeding
90-002240
Life History/General
90-002146
Management/Research--Estuaries
90-004702
Nursery Areas
90-004702
Recruitment
90-004702
Muraena helena
Hematology
90-003532

Muraenolepis
Bird Predation
90-005802
Muraenolepis marmoratus
Head
90-005135
Osteology
90-005135
Muraenolepis microps
Head
90-005135
Osteology
90-005135
Mustelus antarcticus
Commercial Fishing
90-001392
Mustelus californicus
Age/Growth
90-002299
Mustelus canis
Brain
90-003871
Endocrinology
90-003871
Excretory System
90-000180
Histology
90-000180
Kidneys
90-000180
Photoreception
90-000167
Reproductive System
90-003871
Vision
90-000167
Mustelus henlei
Age/Growth
90-002299
Mustelus lunulatus
Abundance/Factors of
90-000610
Distribution/Seasonal
90-000610
Foods/Feeding
90-000610
Mustelus manazo
Food Technology
90-006737
Mycteroperca rosacea
Predator/Prey Relationships
90-002266
Myctophidae
Abundance/Factors of
90-002307
Behavior
90-003785
Distribution/Factors of
90-002307
Distribution/Vertical
90-003785
Management/Research--Marine
90-002307
Photoperiodism
90-003785
Population Studies
90-002307
Rhythmicity
90-003785
Sampling
90-002307
Myctophum nitidulam
Distribution/Geographical
90-000695
Myctophum punctatum
Abundance/Factors of
90-005869
Currents
90-005869
Ichthyoplankton
90-005869
Larval Drift
90-005869
Myctophum selenops
Caudal Neurosecretory System
90-001652
Distribution/Geographical
90-001652
Distribution/Vertical
90-001652
Light Organs
90-001652
Meristic Studies
90-001652
Morphometry
90-001652
Myleus rhomboidalis
Culture/Propagation
90-005748
Cytology
90-003260
Foods/Feeding
90-005748
Osteology
90-003260
Myleus ternetzi
Culture/Propagation
90-005748
Cytology
90-001706
Fecundity
90-000309
Foods/Feeding
90-005748
Histology
90-000309
90-001706
Leydig Organ
90-001706
Maturation
90-001706
Reproduction
90-000309
Reproductive System
90-001706
Myliobatis aquila
Biochemical Composition
90-000455
Species Identification
90-000455
Variation Studies
90-000455
Myliobatis freminvillei
Biochemical Composition
90-000455
Species Identification
90-000455
Variation Studies
90-000455
Myliobatis goodei
Biochemical Composition
90-000455

...CONTINUED...
Myliobatis goodei
Species Identification
90-000455
Variation Studies
90-000455
Mylopharodon conocephalus
Habitat Selection
90-006565
Temperature Selection
90-006565
Mylopharyngodon piceus
Culture/Propagation
90-000733
90-001521
Parasites/Diseases
90-000733
Myoxocephalus octodecemspinosus
Brain
90-000342
Cytology
90-003578
Disease Susceptibility
90-002502
Excretory System
90-003470
Eyes
90-003578
Growth Hormone
90-000342
Healing
90-003578
Heart
90-003364
Heavy Metals
90-003578
Hematology
90-003364
Hormones
90-005237
Hypothalamic-Hypophysial System
90-000342
Immune Response
90-003364
Kidneys
90-003328
90-005205
Metabolism
90-003340
Methylmercury
90-003578
Oil Pollution
90-002502
Ormethoprim
90-003439
Osmoregulation
90-003328
90-003329
90-005237
Parasites/Diseases
90-002502
Peptides
90-005237
pH Regulation
90-003328
90-003329
90-003470
90-005205
Pituitary Gland
90-000342
Rectal Gland
90-003470

...CONTINUED...
Myoxocephalus octodecemspinosus
Salinity
90-003328
90-003329
90-005205
Temperature
90-003340
Thermal Tolerance
90-003340
Myoxocephalus scorpius
Bothriocephalus
90-006038
Cestodes
90-006038
Exercise
90-001754
Musculature
90-001754
Parasites/Diseases
90-006038
Predator/Prey Relationships
90-003955
Swimming Performance
90-001754
Myoxocephalus thompsoni
Abundance/Factors of
90-001897
Age/Growth
90-001787
90-002275
Distribution/Geographical
90-001897
Fecundity
90-001787
Management/Research--Lakes
90-004623
Predator/Prey Relationships
90-002275
Reproduction
90-001897
Reproductive Cycle
90-001787
Stock Assessment
90-002275
Survival
90-001787
Trophic Relationships
90-004623
Mystus gulio
DDT
90-006192
Endosulfan
90-006192
Lindane
90-006192
Management/Research--Estuaries
90-006192
Pesticides
90-006192
Pollution
90-006192
Tropics
90-006192
Mystus vittatus
Endocrinology
90-005262
Gonosomatic Index
90-003891
Maturation
90-005262
Mercuric Chloride
90-002587

...CONTINUED...
Mystus vittatus
Methyl Mercuric Chloride
90-002587
Reproduction
90-003891
Reproductive Cycle
90-003891
Myxine glutinosa
Antibiotics
90-003606
90-006133
Brain
90-000395
Cardiovascular System
90-005292
Cytochrome
90-000219
Digestive System
90-000247
Drugs
90-003423
Embryology
90-001698
Endocrinology
90-000247
90-000395
Enzymes
90-000219
Eutrophication
90-004233
Heart
90-003362
Hormones
90-005237
Hypoxia
90-004233
Immune Response
90-003606
Insulin
90-000395
Kidneys
90-003423
90-005292
Life History/General
90-002983
Management/Research--Marine
90-004233
Osmoregulation
90-005237
Peptides
90-000247
90-003362
90-005237
90-005292
Pharmacology
90-003423
90-003606
Pollution
90-004233
Teeth
90-001698
Myxinidae
Endocrinology
90-005258
Evolution
90-005258
Nannochromis nudiceps
Aquariums
90-003161
Culture/Propagation
90-003161

...CONTINUED...
Nannochromis nudiceps
Life History/General
90-003161
Parental Behavior
90-003161
Spawning
90-003161
Nannostomus eques
Aquariums
90-000140
Nansenia groenlandica
Distribution/Geographical
90-005833
Narcine bentuviai
Morphology
90-002341
New Species
90-002341
Narcine brasiliensis
Life History/General
90-000564
Navodon modestus
Abundance/Factors of
90-005687
Distribution/Seasonal
90-003924
Management/Research--Marine
90-005687
Population Studies
90-005687
Negaprion
Electrophoresis
90-002059
Taxonomy
90-002059
Negaprion brevirostris
Anesthetics
90-004098
Diagnostic Techniques
90-004098
Digestive Rate
90-005789
Foods/Feeding
90-002244
90-003973
90-005789
Metabolic Rates
90-001793
Oxygen
90-001793
Parasites/Diseases
90-004098
Treatment
90-004098
Nelusetta ayraudi
Commercial Fishing
90-001392
Nemadactylus valenciennesi
Commercial Fishing
90-001392
Nematalosa nasus
Management/Research--Estuaries
90-004694
Population Studies
90-004694
Stock Assessment
90-004694
Nematogobius bibarbatus
Predator/Prey Relationships
90-003938
Nemipterus furcosus
Age/Growth
90-003998

...CONTINUED...
Nemipterus furcosus
Length Frequencies
90-003998
Otoliths
90-003998
Nemipterus japonicus
Bacterial Flora
90-003554
Bioluminescence
90-003554
Biosorption
90-002462
Catch Per Unit Effort
90-004787
Distribution/Seasonal
90-004787
Public Health Problems
90-002462
Trace Metals
90-002462
Neoceratodus forsteri
Aquariums
90-003153
Culture/Propagation
90-003153
Endocrinology
90-003355
Peptides
90-003355
Pituitary Gland
90-003355
Neocirrhites armatus
Management/Research--Marine
90-000493
Mate Selection
90-000493
Monogamy
90-000493
Social Behavior
90-000493
Neogobius melanostomus
Abnormalities
90-003237
Digestive System
90-001715
Early Development
90-001715
90-003237
Variation Studies
90-001715
Neoharriotta pinnata
Distribution/Geographical
90-004032
Morphology
90-004032
Neolamprologus brichardi
Cannibalism
90-002130
Egg Predation
90-002130
Parental Behavior
90-002130
Neopagetopsis ionah
Eggs
90-002196
Larvae
90-004087
Maturation
90-002196
Reproduction
90-002196

...CONTINUED...
Neopagetopsis ionah
Sex Ratios
90-002196
Neosilurus ater
Bioaccumulation
90-004390
Copper
90-004390
Heavy Metals
90-004390
Mine Effluents
90-004390
Neothunnus albacora
Fish as Food
90-001993
Musculature
90-001993
Nerophis
Life History/General
90-000560
Population Studies
90-000560
Nettenchelys dionisi
Morphology
90-002343
New Species
90-002343
Netuma
Harvest
90-004480
Management/Research--Marine
90-004480
Nezumia aequalis
Fecundity
90-003928
Foods/Feeding
90-003928
Nezumia bairdi
Distribution/Factors of
90-000619
Distribution/Geographical
90-000619
Distribution/Vertical
90-000619
Life History/General
90-000619
Nibea mitsukurii
Mutagens
90-004351
Neoplasms
90-004351
Parasites/Diseases
90-004351
Nocomis
Nests/Nesting
90-000506
Sexual Dimorphism
90-000506
Nocomis asper
Evolution
90-003652
Nocomis biguttatus
Allozymes
90-005446
Distribution/Geographical
90-005655
Interspecies Relationships
90-005585
Nests/Nesting
90-005585
Population Studies
90-005655

...CONTINUED...
Nocomis biguttatus
Spawning
90-005585
Nocomis leptocephalus
Coexistence
90-002214
Evolution
90-003652
Habitat Selection
90-006598
Interspecies Relationships
90-002214
Nests/Nesting
90-002214
Nocomis micropogon
Colonization
90-005656
Distribution/Geographical
90-005656
Population Studies
90-005656
Noemacheilus barbatulus
Biomass
90-004660
Biosorption
90-004554
90-006178
Cadmium
90-000880
90-004554
90-006126
90-006178
Distribution/Geographical
90-000686
90-004027
Foods/Feeding
90-005773
Habitat Selection
90-000686
90-004027
Heavy Metals
90-000880
90-004554
90-006126
90-006178
Lead
90-000880
90-006126
Management/Research--Rivers and Streams
90-004660
Modeling
90-004554
Niche Overlaps
90-005773
Population Studies
90-004660
Toxicology
90-004554
Notacanthus chemnitzi
Biochemical Composition
90-005646
Digestive System
90-005646
Distribution/Geographical
90-004023
Gills
90-005646
Life History/General
90-005646
Liver
90-005646

...CONTINUED...
Notacanthus chemnitzi
Musculature
90-005646
Notemigonus crysoleucas
Abundance/Factors of
90-006504
Acidification
90-004602
Beaver Ponds
90-004686
Bioenergetics
90-001828
Culture/Propagation
90-000763
90-003064
Eutrophication
90-001134
Foods/Feeding
90-000501
90-000635
90-001134
Fry Production
90-003064
Habitat Selection
90-006504
Hatching
90-003064
Management/Research--Lakes
90-000635
90-001134
90-004602
90-006504
Nursery Areas
90-006504
Parasites/Diseases
90-000763
Predator/Prey Relationships
90-004602
Protozoan Diseases
90-000763
Reptile Predation
90-003942
Schooling Behavior
90-001828
Survival
90-003064
Swimming Performance
90-001828
Tank Culture
90-003064
Treatment
90-000763
Trophic Relationships
90-001134
90-004602
Trophic Status
90-001134
Winterkill
90-001134
Zooplankton
90-004602
Nothobranchius jubbi
Courtship
90-000596
Life History/General
90-000596
Nothobranchius steinforti
Aquariums
90-005081
Coloration
90-005081

...CONTINUED...
Nothobranchius steinforti
Culture/Propagation
90-005081
Notocetichthys
New Genus
90-002340
Notocetichthys trunovi
Morphology
90-002340
New Species
90-002340
Notolepis
Bird Predation
90-005802
Notopterus
Foods/Feeding
90-000199
Jaws
90-000199
Teeth
90-001730
Tongue
90-000199
90-001730
Notorynchus cepedianus
Life History/General
90-000537
Notothenia acuta
Bird Predation
90-005802
Notothenia coriiceps
Scales
90-003218
Notothenia coriiceps neglecta
Amino Acids
90-003345
Hematology
90-003345
Thermal Tolerance
90-003345
Notothenia cyanobrancha
Bird Predation
90-005802
Notothenia gibberifrons
Metabolism
90-003340
90-003461
Musculature
90-003461
Temperature
90-003340
Thermal Tolerance
90-003340
90-003461
Notothenia marmorata
Lipid Composition
90-001889
Lipid Content
90-001889
Notothenia mizops
Bird Predation
90-005802
Notothenia neglecta
Musculature
90-005241
Oxygen
90-005241
Respiration
90-005241
Rhythmicity
90-005241
Notothenia rossii
Bird Predation
90-005802
Notothenia squamifrons
Bird Predation
90-005802
Nototheniidae
Morphology
90-005122
Taxonomy
90-005122
Variation Studies
90-005122
Nototheniops nudifrons
Age/Growth
90-005818
Otoliths
90-005818
Notropis
Brain
90-001684
Evolution
90-003652
Nervous System
90-001863
Nursery Areas
90-004697
Sexual Dimorphism
90-001684
Taxonomy
90-000715
Turbidity
90-001684
90-001863
Vision
90-001863
Notropis albeolus
Habitat Selection
90-006598
Notropis ammophilus
Distribution/Geographical
90-004082
New Species
90-004082
Notropis amoenus
Foods/Feeding
90-000568
Habitat Selection
90-000568
Life History/General
90-000568
Notropis atherinoides
Abundance/Factors of
90-006569
Acid Mine Water
90-000812
Age/Growth
90-006569
Backwater Lakes
90-001291
Distribution/Factors of
90-006569
Habitat Selection
90-001291
Interspecies Relationships
90-006540
Management/Research--Lakes
90-006507
90-006540
Management/Research--Rivers and Streams
90-000812

...CONTINUED...
Notropis atherinoides
Streams
90-001291
Microhabitat
90-001291
Nursery Areas
90-001291
Pollution
90-000812
Reproduction
90-006569
Trophic Relationships
90-006507
Notropis buchanani
Chromosomes
90-002034
Karyotypes
90-002034
Notropis cerasinus
Habitat Selection
90-006598
Notropis chrysocephalus
Chromosomes
90-005456
Variation Studies
90-005456
Notropis cornutus
Activity Patterns
90-000509
Foods/Feeding
90-000568
Habitat Evaluation
90-002774
Habitat Selection
90-000568
HSI
90-002774
Interspecies Relationships
90-005585
Life History/General
90-000568
Management/Research--Rivers and Streams
90-002774
Modeling
90-002774
Nests/Nesting
90-005585
Prairie Streams
90-002774
Spawning
90-005585
Notropis emiliae
Life History/General
90-003833
Maturation
90-003833
Notropis galacturus
Allozymes
90-005446
Notropis girardi
Dispersal
90-000576
Life History/General
90-000576
Stocking/Introductions
90-000576
Notropis heterodon
Beaver Ponds
90-004686
Foods/Feeding
90-000635

...CONTINUED...
Notropis heterodon
Management/Research--Lakes
90-000635
Notropis heterolepis
Life History/General
90-005627
Notropis hubbsi
Chromosomes
90-002034
Karyotypes
90-002034
Notropis longirostris
Nests/Nesting
90-003874
Spawning
90-003874
Notropis lutipinnis
Coexistence
90-002214
Interspecies Relationships
90-002214
Nests/Nesting
90-002214
Notropis lutrensis
Agonistic Behavior
90-002104
Exotic Species/California
90-004508
Habitat Selection
90-004508
Interspecies Relationships
90-002104
Lipid Composition
90-000240
Management/Research--Rivers and Streams
90-004508
Niche Overlaps
90-002104
Stocking/Introductions
90-004508
Temperature
90-000240
Notropis maculatus
Chromosomes
90-002034
Karyotypes
90-002034
Notropis procne
Population Studies
90-005831
Notropis rubellus
Interspecies Relationships
90-005585
Nests/Nesting
90-005585
Spawning
90-005585
Notropis signipinnis
Chromosomes
90-002034
Karyotypes
90-002034
Notropis spilopterus
Abundance/Factors of
90-006569
Age/Growth
90-006569
Distribution/Factors of
90-006569
Foods/Feeding
90-000568

...CONTINUED...
Notropis spilopterus
Habitat Selection
90-000568
Life History/General
90-000568
Reproduction
90-006569
Notropis stramineus
Chromosomes
90-002034
Foods/Feeding
90-000568
Habitat Selection
90-000568
Karyotypes
90-002034
Life History/General
90-000568
Taxonomy
90-002352
Notropis texanus
Habitat Selection
90-006760
Management/Research--Rivers and Streams
90-006760
Microhabitat
90-006760
Notropis topeka
Taxonomy
90-002352
Notropis umbratilis
Dewatering
90-003703
Distribution/Geographical
90-005665
Flow Regimes
90-003703
Life History/General
90-005665
Management/Research--Rivers and Streams
90-003703
Population Genetics
90-003703
Population Studies
90-005665
Survival
90-003703
Notropis uranoscopus
Habitat Selection
90-006760
Management/Research--Rivers and Streams
90-006760
Microhabitat
90-006760
Notropis volucellus
Chromosomes
90-002034
Habitat Selection
90-006760
Karyotypes
90-002034
Management/Research--Rivers and Streams
90-006760
Microhabitat
90-006760
Notropis welaka
Chromosomes
90-002034
...CONTINUED...
Notropis welaka
Karyotypes
90-002034
Noturus flavus
Distribution/Geographical
90-005832
Ocyurus
Length Frequencies
90-006452
Odontaspis taurus
Anesthetics
90-004098
Diagnostic Techniques
90-004098
Endocrinology
90-000239
Parasites/Diseases
90-004098
Reproduction
90-000239
Treatment
90-004098
Odontesthes humensis
Electrophoresis
90-000464
Variation Studies
90-000464
Oedalechilus labeo
Distribution/Geographical
90-003842
Early Development
90-003841
Life History/General
90-003841
90-003842
Population Studies
90-003841
Ogilbyina queenslandiae
Eggs
90-003239
Oligocottus maculosus
Lateral Line System
90-003268
Nematodes
90-005990
Parasites/Diseases
90-005990
Pseudodelphis oligocotti
90-005990
Omobranchus woodi
Ichthyoplankton
90-002904
Management/Research--Estuaries
90-002904
Nursery Areas
90-002904
Ompok
Evolution
90-000432
Genetics
90-000432
Oncorhynchus
Age/Growth
90-001850
Agricultural Drainage
90-001234
Behavior
90-002464
Biotransport
90-000583
Bird Predation
90-002325

...CONTINUED...
Oncorhynchus
Commercial Fishing
90-004713
90-004793
90-006341
90-006699
Culture/Propagation
90-002080
90-002192
90-002325
90-004141
90-004410
90-004912
90-004922
90-005499
90-005501
Currents
90-006699
Distribution/Geographical
90-002319
Distribution/Seasonal
90-002319
DNA
90-000436
Early Development
90-001783
Economic Value
90-004781
90-004793
90-006341
Economics
90-001234
90-004491
Egg Survival
90-002332
Environmental Impacts
90-002080
90-005501
Enzymes
90-003682
Escapement
90-002781
90-004793
90-004794
Evolution
90-002080
Exploitation Rates
90-004713
90-004826
Forecasting
90-004748
Fungal Diseases
90-004141
Gear Efficiency
90-004533
Genetic Markers
90-005499
Genetics
90-002777
90-002781
90-005501
Groundfish
90-004491
Growth Hormone
90-001850
Habitat Improvement/General
90-002871
Habitat Rating Systems
90-006597
Harvest
90-004410

...CONTINUED...
Oncorhynchus
Harvest
90-004411
90-004748
90-004793
Hatchery/Wild Populations
90-002080
90-005501
Hatching
90-002332
90-004922
Herbicides
90-006236
Hormones
90-001783
Hydroelectric Developments
90-002783
Indian Treaty Rights
90-002690
Induced Maturation
90-002192
Infectious Hematopoietic Necrosis
90-005977
International Fisheries
90-002690
Jurisdiction
90-004410
90-004781
Law of the Sea
90-004491
Laws/Law Enforcement
90-002690
Life History/General
90-000583
Management/Research--Estuaries
90-002464
Management/Research--General
90-002690
90-002871
90-004410
90-004411
90-005501
Management/Research--Marine
90-004713
90-004748
90-004781
90-004793
90-004794
90-004826
90-006341
90-006699
Management/Research--Reservoirs
90-005675
Management/Research--Rivers and Streams
90-001234
90-001458
90-004793
90-006597
Marketing
90-004491
90-004826
Maturation
90-002052
Migration
90-003784
90-003911
Modeling
90-002777
90-002783

...CONTINUED...
Oncorhynchus
Modeling
90-003723
Nests/Nesting
90-002332
Ocean Ranching
90-004410
90-004912
90-005499
Orientation/Homing
90-003784
90-003911
Osmoregulation
90-002052
Parasites/Diseases
90-004141
90-005977
Parr-Smolt Transformation
90-002052
Planning
90-004781
Pollution
90-002464
Pollution Abatement
90-001234
Pollution Avoidance
90-002464
Population Genetics
90-002777
90-003723
Population Studies
90-002777
90-002781
90-002783
90-004748
90-004794
Predator/Prey Relationships
90-005675
Production
90-004826
Pulp Mill Effluents
90-002464
Recreational Benefits
90-004793
Regulations/General
90-004411
90-004781
90-004793
Reproduction
90-002192
90-002777
90-002781
90-005728
Restoration of Anadromous Runs
90-002783
Salinity
90-002052
Sedimentation
90-002332
Spawning Habitat Restoration
90-002871
Spawning Substrates
90-002332
Stock Assessment
90-004794
Stock Identification
90-003723
90-005501
Stunting
90-001850
Supplemental Stocking
90-004410

...CONTINUED...
Oncorhynchus
Supplemental Stocking
90-004411
90-005501
Techniques
90-002464
Thyroid Gland
90-001783
Triploid Fish
90-002052
Trophic Relationships
90-000583
Urban Development
90-002871
Utilization of Fishery Products
90-004410
Variation Studies
90-000436
90-003682
Viral Diseases
90-005977
Volunteer Programs
90-002871
Water Quality
90-001234
90-002871
Wild Trout Management
90-001234
2,4-D
90-006236
Oncorhynchus aquabonita
Culture/Propagation
90-005018
Feeds
90-005018
Fry Production
90-005018
Nutrition
90-005018
Oncorhynchus clarki
Acidification
90-002662
Aluminum
90-002662
Bioaccumulation
90-004250
Culture/Propagation
90-001490
90-002206
90-003631
Culverts
90-004541
Diagnostic Techniques
90-002416
Distribution/Factors of
90-005841
Egg Production
90-002206
Egg Survival
90-002206
90-005685
EIBS
90-002431
Electrofishing
90-002723
Electroshock
90-002723
Exotic Species/Denmark
90-000995
Exploitation Rates
90-006358

...CONTINUED...
Oncorhynchus clarki
Gas Supersaturation
90-001490
Genetic Strains
90-001320
Genetics
90-003631
Hatchery/Wild Populations
90-003631
Heavy Metals
90-004250
Iridoviridae
90-002431
Lead
90-004250
Management/Research--Lakes
90-003969
90-004250
Management/Research--Reservoirs
90-001320
Management/Research--Rivers and Streams
90-005841
90-006358
Marking/Tagging
90-002723
Mortality Rates
90-003969
Movements
90-005841
Myxosoma cerebralis
90-002416
Oxygenation
90-001490
Parasites/Diseases
90-002416
90-002431
pH
90-002662
Pollution Tolerance
90-002662
Population Studies
90-001320
Predator/Prey Relationships
90-003969
Protozoan Diseases
90-002416
Regulations/General
90-006358
Road Construction
90-004541
Spawning
90-002206
Spawning Cycle Regulation
90-002206
Spawning Substrates
90-005685
Sportfishing
90-001320
Stocking/Introductions
90-001320
90-003631
Substrate Composition
90-005685
Survival
90-002723
90-005685
Temperature
90-002206
Trophic Relationships
90-004250

...CONTINUED...
Oncorhynchus clarki
Viral Diseases
90-002431
Whirling Disease
90-002416
Oncorhynchus clarki bouvieri
Culverts
90-006426
Exotic Species
90-003677
Fishways
90-006426
Genetic Diversity
90-005463
Genetic Strains
90-005463
Hatchery/Wild Populations
90-005463
Hybridization
90-003677
Wild Trout Management
90-005463
Oncorhynchus clarki clarki
Brood Stock
90-001581
Competition
90-000571
Culture/Propagation
90-001581
Egg Production
90-001581
Egg Quality
90-001581
Feeds
90-001581
Fry Production
90-001581
Life History/General
90-000571
90-002150
Management/Research--Rivers and Streams
90-002150
Nutrition
90-001581
Overwintering
90-002150
Wild Trout Management
90-002150
Oncorhynchus clarki henshawi
Egg Survival
90-004653
Management/Research--Rivers and Streams
90-004653
Survival
90-004653
Water Quality
90-004653
Oncorhynchus clarki lewisi
Electrophoresis
90-002039
90-003677
Genetic Diversity
90-005463
Genetic Strains
90-005463
Habitat Improvement/General
90-006604
Hatchery/Wild Populations
90-005463

...CONTINUED...
Oncorhynchus clarki lewisi
Hybridization
90-003677
Management/Research--Rivers and Streams
90-006604
Meristic Studies
90-002039
Mitigation
90-006604
Morphometry
90-002039
Population Genetics
90-003677
Trout Stream Management
90-006604
Variation Studies
90-002039
90-003677
Wild Trout Management
90-005463
Oncorhynchus clarki stomias
Culture/Propagation
90-005018
Endangered/Threatened Species
90-006619
Feeds
90-005018
Fry Production
90-005018
Management/Research--Rivers and Streams
90-006619
Nutrition
90-005018
Wild Trout Management
90-006619
Oncorhynchus clarki utah
Culture/Propagation
90-005018
Feeds
90-005018
Fry Production
90-005018
Nutrition
90-005018
Oncorhynchus gorbuscha
Abundance/Factors of
90-002187
90-002863
Age/Growth
90-005604
Aromatic Hydrocarbons
90-002640
Biotransport
90-002865
Brood Stock
90-002033
90-003613
Copepoda
90-005788
Culture/Propagation
90-001401
90-002033
90-003034
90-003613
90-005867
90-006365
90-006373
Digestive System
90-003224

...CONTINUED...
Oncorhynchus gorbuscha
Distribution/Geographical
90-004043
Early Development
90-000310
Egg Composition
90-000310
Electrophoresis
90-001968
Environmental Impacts
90-003613
Enzymes
90-001968
Erythrocytic Necrosis Virus
90-005980
Escapement
90-005867
Fatty Acids
90-000372
90-003508
Fecundity
90-002189
Fins
90-005143
Foods/Feeding
90-002248
90-002283
90-005788
Forecasting
90-001388
Genetic Diversity
90-000484
Genetics
90-002033
90-003613
Hatchery/Wild Populations
90-002033
90-003613
Hematology
90-001968
Hormones
90-000310
Insects
90-002283
Insulin
90-003536
Islands
90-002189
Life History/General
90-002187
Lipid Composition
90-000372
90-003508
Management/Research--Marine
90-001388
90-001401
90-005788
Management/Research--Rivers and Streams
90-002178
90-002189
90-002203
90-002863
90-002865
Marking/Tagging
90-001401
90-006365
90-006372
90-006373
Mate Selection
90-002178

...CONTINUED...
Oncorhynchus gorbuscha
Migration
90-002865
90-005503
Mortality Factors
90-002863
Mortality Rates
90-002863
Musculature
90-003508
Naphthalene
90-002640
Natural Selection
90-005503
Ocean Ranching
90-001401
90-003034
90-005867
90-006365
90-006373
Parasites/Diseases
90-005980
Ploidy Levels
90-002051
Population Genetics
90-003613
90-005503
Population Studies
90-000445
90-002187
90-002203
Predator/Prey Relationships
90-002248
90-002283
90-002863
Reconditioning
90-002157
Recruitment
90-002189
Reproduction
90-002189
90-005604
Seagrass Beds
90-005788
Season
90-002248
Sex Ratios
90-002178
Sexual Dimorphism
90-005143
Spawning
90-002157
90-002178
90-002203
Stock Assessment
90-001401
Stock Identification
90-001401
90-005503
Supplemental Stocking
90-005867
Survival
90-001388
90-002157
Thyroxine
90-000310
Toluene
90-002640
Variation Studies
90-000372
90-005143

...CONTINUED...
Oncorhynchus gorbuscha
Variation Studies
90-005503
90-005604
Viral Diseases
90-005980
Oncorhynchus keta
Age/Growth
90-000580
90-001804
90-005806
Amino Acids
90-003415
Antiviral Agents
90-005986
Brain
90-003509
Calcium
90-000257
Carcass Traits
90-003426
Copepoda
90-005788
Coronary Lesions
90-002440
Culture/Propagation
90-001559
90-001804
90-003006
90-003034
90-003489
90-003555
90-004909
90-005867
Digestive System
90-003224
Distribution/Factors of
90-003923
Distribution/Geographical
90-004043
Distribution/Seasonal
90-003923
DNA
90-000458
Early Development
90-000310
90-000388
90-000739
90-003414
90-005806
Ectoparasites
90-004163
Egg Composition
90-000310
90-005286
Egg Survival
90-000580
Embryology
90-000388
Endocrinology
90-000388
90-001815
90-001921
90-001922
90-002020
90-003286
90-003405
90-003415
90-003509
90-005243
Environmental Impacts
90-003005

...CONTINUED...
Oncorhynchus keta
Environmental Impacts
90-003006
Enzymes
90-002019
90-005417
Erythrocytic Necrosis Virus
90-005980
Escapement
90-005867
Estradiol
90-001922
Fatty Acids
90-000344
90-001963
90-003414
90-003506
90-003507
90-003508
Fecundity
90-000580
90-005467
Feeding Experiments
90-001559
Feminization
90-001922
Flow Regimes
90-002873
Foods/Feeding
90-002248
90-002253
90-005788
Forecasting
90-001388
Fry Production
90-001559
Genetic Diversity
90-005490
Genetic Markers
90-003006
Gonadotropin
90-003286
90-003415
Gonads
90-003506
Growth Hormone
90-001804
90-003489
90-003509
Guanine
90-003281
Hatchery/Wild Populations
90-003005
90-003006
90-005467
Heart
90-002440
Hematology
90-000388
90-000739
90-002020
90-003286
Histology
90-006371
Hormones
90-000257
90-000310
90-000388
90-001867
90-003405
90-005243

...CONTINUED...
Oncorhynchus keta
Ichthyobodo necator
90-004163
Incubation
90-004909
Insulin
90-003536
Integument
90-003281
Invertebrate Forage
90-001559
Lagoons
90-003179
Lectins
90-005286
Light
90-001804
90-001867
Lipid Composition
90-000344
90-001963
90-003506
90-003507
90-003508
Lipid Metabolism
90-000283
Liver
90-000283
Management/Research--Estuaries
90-003918
Management/Research--Marine
90-001388
90-005788
Management/Research--Rivers and Streams
90-002873
Mark/Recapture
90-006498
Marking/Tagging
90-006371
90-006372
Marshes, Salt
90-003179
Maturation
90-000580
90-001921
90-001922
90-002020
90-003405
90-003507
Migration
90-000283
90-003179
90-003918
Mortality Rates
90-006498
Muscle Proteins
90-000366
90-003426
90-003599
Musculature
90-000366
90-002019
90-003508
90-005417
Nursery Areas
90-003918
Ocean Ranching
90-003034
90-005867
Oncorhynchus Masou Virus
90-005986

...CONTINUED...
Oncorhynchus keta
Osmoregulation
90-003405
90-003555
Parasites/Diseases
90-000739
90-002440
90-004163
90-004178
90-005980
90-005986
Photoperiodism
90-001804
Phototropism
90-001867
Pituitary Gland
90-000257
90-003286
90-005243
Ploidy Levels
90-002063
Polyploidy
90-002063
Population Genetics
90-000458
90-005490
Predator/Prey Relationships
90-002248
Protozoan Diseases
90-004163
Pseudomonas fluorescens
90-005986
Reproduction
90-001921
Reproductive Cycle
90-001963
90-002019
90-003286
90-003426
Reproductive System
90-000344
90-005490
Rhythmicity
90-002253
Salinity
90-001804
90-003405
90-003555
90-003923
Seagrass Beds
90-005788
Season
90-002248
90-003426
90-005490
Sex Determination
90-001815
90-001922
Spawning
90-000283
90-002873
Steroids
90-002020
90-003286
Storage Effects
90-006752
Supplemental Stocking
90-005867
Survival
90-000580
90-001388

...CONTINUED...
Oncorhynchus keta
Temperature
90-003923
Thiourea
90-001867
Thyroid Gland
90-000388
Thyroxine
90-000310
90-000388
90-001867
Treatment
90-005986
Viral Diseases
90-004178
90-005980
90-005986
Viral Erythrocytic Necrosis
90-004178
Water Quality
90-003179
Oncorhynchus kisutch
Abundance/Factors of
90-000621
90-005861
Actomyosins
90-000284
Adrenergic System
90-002021
Aeromonas hydrophila
90-004128
Aeromonas salmonicida
90-004128
90-005943
Age/Growth
90-000487
90-001804
90-001996
90-003018
90-004656
90-005743
Agonistic Behavior
90-003791
Anemia
90-004173
Artificial Streams
90-003028
Backwater Lakes
90-000621
Bacterial Diseases
90-004128
90-005943
90-005948
Bioaccumulation
90-002573
Biochemical Composition
90-001992
Biotransformation
90-002573
Boron
90-004340
Brain
90-001817
90-001818
90-001938
90-003509
Brood Stock
90-001496
90-001550
90-003018
Calcium
90-000257

...CONTINUED...
Oncorhynchus kisutch
Carcass Traits
90-001425
90-003020
Carotenoids
90-000284
Caudal Neurosecretory System
90-003270
Ceratomyxa shasta
90-002414
Chemoreception
90-005514
Climate
90-006471
Coloration
90-003020
Commercial Fishing
90-002720
Competition
90-000571
Coronary Lesions
90-002440
Cortisol
90-001588
90-001916
90-001919
90-002021
90-002022
90-003430
90-003477
90-005403
Crayfish
90-001561
Crypsis
90-000487
Culture/Propagation
90-000098
90-000733
90-001425
90-001496
90-001550
90-001561
90-001588
90-001629
90-001804
90-001830
90-001996
90-002014
90-002720
90-003007
90-003018
90-003020
90-003028
90-003043
90-003369
90-003489
90-003791
90-004173
90-004904
90-004918
90-004921
90-005867
90-005983
Cytology
90-003430
Data Bases
90-001629
Diagnostic Techniques
90-002416
Diets
90-000098

...CONTINUED...
Oncorhynchus kisutch
Diets
90-003369
Digestive Rate
90-000368
Digestive System
90-000368
90-005271
Disease Susceptibility
90-002414
Distribution/Factors of
90-005841
Early Development
90-000310
90-000311
90-000487
90-001916
90-001996
90-005220
Egg Composition
90-000310
90-000311
90-001550
90-001895
Egg Survival
90-001895
90-004471
EIBS
90-002431
Embryology
90-005160
Endocrinology
90-001785
90-001815
90-001830
90-001877
90-001895
90-001919
90-001982
90-001991
90-001992
90-002005
90-002021
90-002022
90-002023
90-003368
90-003477
90-003509
90-005220
90-005243
90-005348
Enzymes
90-001919
90-003043
Escape Behavior
90-000487
Escapement
90-003028
90-005713
90-005867
Esters
90-002573
Estradiol
90-002005
90-003369
Evolution
90-006467
Exercise
90-000250
Exotic Species
90-005713

...CONTINUED...
Oncorhynchus kisutch
Eyes
90-002015
Fatty Acids
90-000344
90-001992
90-003390
Fecundity
90-001550
90-005743
Feeding Experiments
90-000098
Feeds
90-001550
90-001561
90-004918
90-005271
Fertilization/Soil and Water
90-004656
Flow Regimes
90-004675
Foods/Feeding
90-002264
90-005511
90-005752
Forage Production
90-001561
Forecasting
90-006471
Fry Production
90-000098
Genetics
90-001496
90-003018
90-003020
90-004921
Gills
90-001919
90-002015
90-003043
90-003477
Growth Hormone
90-000387
90-001804
90-001876
90-001992
90-002021
90-002022
90-002023
90-003489
90-003509
Growth Stimulants
90-004904
Habitat Alterations
90-004471
Habitat Evaluation
90-004670
Habitat Improvement/General
90-004670
90-004675
Habitat Selection
90-000514
90-000621
90-004675
90-004675
90-005593
Hatchery Releases
90-001929
Hatchery/Wild Populations
90-001425
90-003791

...CONTINUED...
Oncorhynchus kisutch
Hatchery/Wild Populations
90-005431
Heart
90-002440
Heated Effluents
90-006078
Hematology
90-003390
90-003425
90-003477
Histology
90-005160
90-006371
Hormones
90-000257
90-000310
90-000311
90-001785
90-001818
90-001830
90-001867
90-001876
90-001877
90-001919
90-001991
90-002005
90-002021
90-002023
90-003369
90-005243
90-005403
Hybrid Identification
90-005431
Hybridization
90-005431
Immune Response
90-001821
90-001916
90-003425
90-003477
90-004128
Immunization
90-005948
Imprinting
90-001818
90-002088
90-005514
Induced Maturation
90-001830
90-001982
90-002005
90-003007
Infectious Hematopoietic Necrosis
90-004175
Interspecies Relationships
90-000487
Invertebrate Forage
90-001561
90-004918
Iridoviridae
90-002431
Larval Behavior
90-003791
Learning
90-005514
Life History/General
90-005593
Light
90-001804

...CONTINUED...
Oncorhynchus kisutch
Light
90-001867
90-001996
Lipid Composition
90-000344
Liver
90-001878
90-005403
Logging Residue
90-004471
Lunar Influences
90-001929
Lymphocytes
90-003425
Management/Research--Lakes
90-002697
90-004608
90-005775
90-006471
Management/Research--Rivers and Streams
90-000621
90-004471
90-004656
90-004670
90-004675
90-005593
90-005713
90-005841
Marking/Tagging
90-006371
Maturation
90-001982
90-002005
90-002014
90-002191
90-002191
90-003390
Maximum Sustainable Yield
90-006471
Memory
90-005514
Microhabitat
90-004675
Migration
90-002697
90-002720
90-005743
90-006467
Molybdenum
90-004340
Morphology
90-005743
Mortality Factors
90-005861
Mortality Rates
90-005861
Mouth Parts
90-005160
Movements
90-005528
90-005841
Mucus
90-001847
Muscle Proteins
90-000366
Musculature
90-000284
90-000366
90-002015

...CONTINUED...
Oncorhynchus kisutch
Musculature
90-003390
90-003569
Myxosoma cerebralis
90-002416
Nervous System
90-001938
90-003270
Net-Pen Culture
90-001496
90-003018
90-003020
90-003043
90-004918
Nitrogen
90-003569
Nutrition
90-000098
90-001550
90-001561
90-001895
Ocean Ranching
90-005867
Olfaction
90-001817
90-002088
Orientation/Homing
90-002088
90-005566
90-006467
Osmoregulation
90-000387
90-002014
90-002023
90-003368
90-003430
Pancreas
90-005348
Parasites/Diseases
90-000733
90-002414
90-002416
90-002431
90-002440
90-004128
90-004173
90-004175
90-005943
90-005948
90-005983
Parr-Smolt Transformation
90-000387
90-001785
90-001803
90-001817
90-001818
90-001877
90-001916
90-001929
90-001938
90-001992
90-002015
90-002023
90-003043
90-003368
90-003430
90-005220
Parthenogenesis
90-001821
Peptides
90-001938

...CONTINUED...
Oncorhynchus kisutch
Pheromones
90-002088
Photoperiodism
90-001804
90-001996
Phototropism
90-001867
Pigmenters
90-001561
90-004918
Pigments
90-000284
90-004918
Pituitary Gland
90-000257
90-001877
90-001911
90-001991
90-003368
90-003430
90-005243
Ploidy Levels
90-002032
Polyploidy
90-003007
Population Studies
90-005713
Potassium
90-001878
Power Plants
90-006078
Predator/Prey Relationships
90-000487
90-005775
Production
90-005593
Proteins
90-001847
Protozoan Diseases
90-002414
90-002416
Recreational Benefits
90-004608
Reintroductions
90-005593
Reproductive System
90-000344
Research Test Fish
90-005220
Salinity
90-001804
90-001876
90-001878
90-001996
90-002014
90-002022
90-003043
90-003430
Season
90-003043
90-005743
Selective Breeding
90-003018
90-004921
Selenium
90-004340
Serotonin
90-001821
Sex Determination
90-001815

...CONTINUED...
Oncorhynchus kisutch
Sex Determination
90-001847
Sexual Precocity
90-002191
Spawning
90-002191
90-005713
90-005743
Spawning Substrates
90-004471
Sportfishing
90-002720
Starvation
90-005348
Sterilization
90-002720
Steroids
90-001982
90-003369
Stocking/Introductions
90-001588
90-001929
90-002720
90-005593
Stress
90-001588
90-001916
Stunting
90-002015
90-002022
Supplemental Stocking
90-005867
Survival
90-001929
90-003028
90-005861
Telemetry
90-005528
Temperature Selection
90-005528
Thermal Pollution
90-002697
90-006078
Thiourea
90-001867
Thyroid Gland
90-001785
90-005403
Thyroxine
90-000310
90-000311
90-001803
90-001818
90-001867
90-001929
90-002021
90-002022
90-003369
Transportation
90-001588
Triploid Fish
90-002032
90-003007
Variation Studies
90-000311
90-003791
90-005743
Vibrio ordalii
90-005948
Viral Diseases
90-002431

...CONTINUED...
Oncorhynchus kisutch
Viral Diseases
90-004173
90-004175
90-005983
Vitellogenin
90-003007
Volcanoes
90-005593
Weight Loss
90-003043
Whirling Disease
90-002416
Oncorhynchus masou
Acanthocephalus
90-000794
90-003824
Age/Growth
90-001566
90-002297
90-003448
Antiviral Agents
90-005986
Behavior
90-002127
Bile
90-003280
Brood Stock
90-001498
Carotenoids
90-003280
Culture/Propagation
90-001498
90-001516
90-001566
90-001936
90-003448
90-004910
90-005050
90-005547
Diets
90-001566
90-005050
Digestive System
90-003224
Endocrinology
90-001918
90-001921
90-001922
90-001936
90-002017
90-002020
Estradiol
90-001922
Exotic Species/Chile
90-005547
Fatty Acids
90-000372
90-001566
90-003508
90-005050
Feeds
90-005050
Feminization
90-001922
Foods/Feeding
90-000643
90-002127
Growth Stimulants
90-001498
Hematology
90-002020

...CONTINUED...
Oncorhynchus masou
Hematology
90-003280
90-003375
Hormones
90-001918
90-001936
90-002017
Immunoglobulins
90-003375
Induced Maturation
90-001918
Landlocked Populations
90-005608
Length-Weight Relationships
90-002297
Life History/General
90-003824
90-005608
90-005619
Lipid Composition
90-000372
90-003508
Marking/Tagging
90-003824
Maturation
90-001516
90-001921
90-001922
90-002020
Migration
90-001498
Morphology
90-005608
Musculature
90-003508
Myxobolus arcticus
90-000724
Nanophyetus salmincola
90-000724
Nutrition
90-005050
Ocean Ranching
90-004910
90-005547
Oncorhynchus Masou Virus
90-005986
Orientation/Homing
90-005547
Parasites/Diseases
90-000724
90-000794
90-003824
90-005902
90-005986
Parr-Smolt Transformation
90-001498
90-001566
90-001936
90-002017
90-003448
Photoperiodism
90-001516
90-001936
90-003448
Pigments
90-003280
Ploidy Levels
90-002063
Polyploidy
90-002063

...CONTINUED...
Oncorhynchus masou
Proteins
90-003280
Protozoan Diseases
90-000724
Pseudomonas fluorescens
90-005986
Reproduction
90-001921
Reproductive Cycle
90-003280
Reproductive System
90-001918
Scales
90-002297
Season
90-000794
Sex Determination
90-001922
Spawning Cycle Regulation
90-001516
Sperm
90-001905
Steroids
90-002020
Stocking/Introductions
90-006383
Stunting
90-001918
Supplemental Stocking
90-003824
Temperature
90-000643
Tetraonchus awakurai
90-000724
Thyroxine
90-002017
Treatment
90-005986
Variation Studies
90-000372
Viral Diseases
90-005986
Oncorhynchus masou formosanus
Endocrinology
90-001918
Flow Regimes
90-001301
Hormones
90-001918
Induced Maturation
90-001918
Landlocked Populations
90-001301
Management/Research--Rivers and Streams
90-001301
Population Studies
90-001301
Reproductive System
90-001918
Stunting
90-001918
Oncorhynchus mykiss
Abnormalities
90-001694
Abundance/Factors of
90-001019
90-003807
90-005584
Acanthocephala
90-002456

...CONTINUED...
Oncorhynchus mykiss
Acanthocephala
90-004185
Acanthocephalus anguillae
90-004185
Acidification
90-000885
90-001902
90-002557
90-002624
90-004405
90-004639
90-005296
90-006198
Acidosis
90-000290
90-000327
90-005260
90-005261
Acoustical Methods
90-004861
Acrylamide
90-000502
Activity Patterns
90-000509
Adrenaline
90-003436
90-005207
Adrenergic System
90-000327
90-001805
Aeromonas hydrophila
90-004128
Aeromonas salmonicida
90-001849
90-002401
90-004128
90-005318
90-005931
90-005943
90-005946
Aflatoxins
90-002631
90-006179
Age/Growth
90-000030
90-000084
90-000990
90-001575
90-002013
90-002078
90-002186
90-003019
90-003032
90-003504
90-003534
90-003968
90-004656
90-004906
90-004915
90-005158
Alcohols
90-002589
Allozymes
90-005444
Aluminum
90-000879
90-000885
90-000905
90-002624
90-003040

...CONTINUED...
Oncorhynchus mykiss
Aluminum
90-004341
90-004405
90-005346
90-006113
Amino Acids
90-000234
90-005762
Ammonium
90-002465
Androgen
90-003459
90-003715
Anesthetics
90-000907
90-001940
90-005278
Angiotensin
90-003311
90-003312
Antibodies
90-000339
90-000761
90-000775
90-000800
90-004172
90-005318
90-005931
90-005946
90-005955
90-005985
90-006048
Antigens
90-000230
90-003027
Arginine
90-001727
Argulus foliaceus
90-006028
Aromatic Amines
90-004319
Aromatic Hydrocarbons
90-004365
Arteriosclerosis
90-004210
Artificial Spawning Beds
90-001932
Ascorbic Acid
90-000249
90-000339
90-005212
Auditory Sense
90-001965
Bacterial Diseases
90-001849
90-002366
90-002373
90-002389
90-002397
90-002398
90-002400
90-002401
90-003644
90-004102
90-004110
90-004111
90-004121
90-004128
90-004136
90-004137

...CONTINUED...
Oncorhynchus mykiss
Bacterial Diseases
90-005318
90-005925
90-005931
90-005941
90-005942
90-005943
90-005946
Bacterial Gill Disease
90-003644
90-005941
Bacterial Kidney Disease
90-002397
Bactericides
90-002378
90-003413
90-004111
90-004114
Behavior
90-004363
90-006183
Benzo(a)pyrene
90-006183
Betadine
90-004916
Bile
90-000887
90-002613
Bioaccumulation
90-003040
90-004250
90-006117
90-006219
90-006228
Bioassay Techniques
90-006165
Biochemical Composition
90-001940
Biodegradation
90-002618
Bioenergetics
90-000502
90-003504
90-005521
Biological Monitoring
90-002465
90-002538
90-002551
90-002606
90-004296
Biomass
90-006629
Biosorption
90-002589
90-002618
90-002634
90-004327
90-004341
90-006111
90-006178
Biotransformation
90-000923
90-002613
90-004362
Biotransport
90-002865
Brackishwater Culture
90-004913
Brain
90-000113

...CONTINUED...
Oncorhynchus mykiss
Brain
90-000226
90-000407
90-002575
90-003591
90-005333
Brood Stock
90-001495
90-001575
90-001576
90-001585
90-002053
90-003009
90-004903
90-005062
Butylbenzene
90-002613
Cadmium
90-002593
90-002634
90-004329
90-006178
Cage Culture
90-001515
90-003016
90-004905
90-006028
Calcitonin
90-003373
Calcium
90-002624
90-003482
90-003490
90-003503
90-005281
Carbamates
90-002575
Carbohydrate Metabolism
90-000097
90-000106
90-003525
Carbohydrates
90-001852
90-005228
Carbon Dioxide
90-000423
Carcass Traits
90-001425
90-005055
90-005062
90-005158
Carcinogens
90-002631
90-006165
90-006179
Cardiovascular System
90-001669
90-003436
Carotenoids
90-005285
Catch Per Unit Effort
90-004570
Catecholamines
90-000421
90-001956
90-002575
90-005347
Cell Culture
90-002400
90-003231

...CONTINUED...
Oncorhynchus mykiss
Cell Culture
90-003459
90-003460
90-005320
Ceratomyxa shasta
90-000760
90-000761
90-002414
90-005955
Cestodes
90-000800
90-004200
Channelization
90-006623
Chemoreception
90-000423
Chloride Cells
90-000229
90-000350
90-001910
90-003454
Chlorine
90-006111
Chlorophenols
90-004374
Chromosomes
90-000456
90-003622
90-005450
90-005451
Coexistence
90-003807
Colonization
90-006592
Coloration
90-001487
Compensatory Swimming
90-005521
Competition
90-004593
Complexing Agents
90-002575
Condition Factors
90-000441
90-005062
90-005950
Copper
90-004329
90-006117
Coronary Lesions
90-002440
Corpuscle of Stannius
90-003503
Corticosteroids
90-005207
Cortisol
90-000242
90-001010
90-001910
90-003320
90-003454
90-003518
90-005207
Crayfish
90-001561
Cryopreservation
90-001620
90-001626
90-003469
Cryptobia salmositica
90-004164

...CONTINUED...
Oncorhynchus mykiss
Culture/Propagation
90-000030
90-000032
90-000083
90-000084
90-000097
90-000099
90-000100
90-000106
90-000113
90-000119
90-000120
90-000122
90-000249
90-000353
90-000441
90-000729
90-000733
90-001425
90-001482
90-001484
90-001486
90-001487
90-001490
90-001495
90-001509
90-001510
90-001512
90-001514
90-001515
90-001547
90-001561
90-001575
90-001576
90-001578
90-001585
90-001620
90-001626
90-001629
90-001937
90-002053
90-002073
90-002186
90-002366
90-002378
90-002389
90-002390
90-002401
90-003006
90-003008
90-003009
90-003016
90-003019
90-003022
90-003023
90-003027
90-003030
90-003032
90-003033
90-003040
90-003041
90-003044
90-003104
90-003126
90-003400
90-003545
90-003631
90-003693
90-003702
90-003715

...CONTINUED...
Oncorhynchus mykiss
Culture/Propagation
90-004102
90-004111
90-004136
90-004137
90-004181
90-004903
90-004905
90-004906
90-004911
90-004913
90-004914
90-004915
90-004916
90-004917
90-004920
90-005023
90-005025
90-005039
90-005053
90-005055
90-005062
90-005065
90-005095
90-005101
90-005158
90-005212
90-005213
90-005285
90-005321
90-005451
90-005982
90-006028
90-006394
Cytochalasin
90-001998
Cytochrome
90-003559
Cytochrome P450
90-003276
90-005291
Cytology
90-003231
90-003250
90-003299
90-003310
Cytophaga
90-004136
90-004137
Dams
90-001010
Daphnia
90-000083
Data Bases
90-001629
Detritus
90-004405
Diagnostic Techniques
90-000760
90-004164
90-004167
90-004176
Diets
90-000083
90-000084
90-000097
90-000099
90-000100
90-000106
90-000113

...CONTINUED...
Oncorhynchus mykiss
Diets
90-000119
90-000122
90-000353
90-001487
90-003033
90-003044
90-005023
90-005055
90-005062
90-005212
90-005285
Digestive Rate
90-000113
Digestive System
90-001694
90-003224
90-003404
90-004327
90-005271
90-005370
Dimethyl Sulfoxide
90-006165
Dioxin
90-006228
Diphyllobothrium dendriticum
90-000800
Diphyllobothrium ditremum
90-000800
Diplostomum spathaceum
90-006010
90-006048
90-006049
Disease Importation
90-006028
Disease Susceptibility
90-002414
90-002724
90-003644
90-003702
90-004174
Disease-Free Culture
90-000729
90-001482
90-001510
90-002378
90-002389
90-002390
90-003008
90-003027
90-003702
90-004111
90-005095
Disinfection
90-005095
Distribution/Factors of
90-005841
Distribution/Vertical
90-005740
Diurnal Rhythm
90-002239
DNA
90-000444
90-001826
90-002631
Drinking Behavior
90-003794
Drought
90-002538
Drug Clearance
90-004138

...CONTINUED...
Oncorhynchus mykiss
Dyes
90-006115
Early Development
90-000441
90-001694
90-002046
90-003794
90-005127
90-005370
Economic Value
90-004504
Economics
90-002390
Egg Collection
90-001512
Egg Identification
90-006767
Egg Production
90-001486
90-001495
90-001575
90-001585
90-001937
90-003009
90-003040
90-003044
90-003545
90-004916
Egg Quality
90-001495
90-001585
Egg Size
90-000441
90-003009
90-003044
Eggs
90-000304
90-004499
90-005296
90-005398
EIBS
90-002431
Electrophoresis
90-001968
90-003659
90-004917
Electrophysiology
90-000226
Embryology
90-001932
90-001937
90-005127
90-006165
90-006198
90-006217
Endocrinology
90-000226
90-000234
90-000242
90-000390
90-001752
90-001771
90-001822
90-001868
90-001910
90-001921
90-001951
90-001967
90-001982
90-003273

...CONTINUED...
Oncorhynchus mykiss
Endocrinology
90-003276
90-003277
90-003320
90-003336
90-003373
90-003404
90-003459
90-003460
90-003465
90-003482
90-003518
90-003519
90-003539
90-003591
90-005207
90-005228
90-005281
90-005282
90-005333
90-005408
90-005409
Environmental Impacts
90-001515
90-003005
90-003006
90-003008
90-003016
Enzymes
90-000444
90-001727
90-001910
90-001968
90-003273
90-003277
90-003321
90-003380
90-003465
90-003591
90-003644
90-004362
90-005190
90-005212
90-005266
Epidermis
90-000875
90-003250
90-003321
Erythromycin
90-004916
Escape Behavior
90-003751
Escapement
90-000572
90-006394
Estradiol
90-001809
90-001868
90-002631
90-003344
Excretory System
90-006113
Exercise
90-000250
90-000327
90-001761
90-001943
90-003588
90-005405
Exotic Species
90-003677

...CONTINUED...
Oncorhynchus mykiss
Exotic Species
90-004593
Exotic Species/Argentina
90-002193
Exotic Species/Denmark
90-000995
Fatty Acids
90-000100
90-000397
90-000399
90-005055
90-005285
Fecundity
90-001495
90-001575
90-002053
90-002193
90-003009
90-003019
90-003545
90-004917
Feeding Experiments
90-000084
90-000099
90-001547
90-004911
90-005053
Feeds
90-000084
90-000099
90-000100
90-000119
90-001561
90-001578
90-004906
90-005023
90-005025
90-005039
90-005055
90-005065
90-005271
90-005285
Fertilization
90-000032
90-000230
90-001512
90-001514
90-001626
90-002557
90-003545
Fertilization/Soil and Water
90-004656
Fire
90-000978
Fish as Food
90-001547
90-005641
Fish Behavior
90-001007
90-002110
Fish Hatchery Effluents
90-003016
Fish Passage
90-001010
Fish Preservation
90-004850
Fishing Tournaments
90-002843
Flood Control
90-006623

...CONTINUED...
Oncorhynchus mykiss
Floods
90-002538
90-006592
Flow Regimes
90-002538
90-004675
90-005521
Flumequine
90-001510
Food Conversion Efficiency
90-002013
90-003016
90-003504
Food Supply
90-003807
90-003968
Foods/Feeding
90-000120
90-000328
90-000490
90-000648
90-002239
90-003033
90-003404
90-003968
90-005745
90-005762
Forage Production
90-001561
Fry Production
90-004137
Fry Stocking
90-000990
Fumagillin DCH
90-005974
Fungal Diseases
90-004099
90-004138
90-005950
Fungicides
90-004138
Furunculosis
90-005318
Gas Supersaturation
90-001490
Gear Efficiency
90-004519
Gene Transfer
90-003693
Genetic Diversity
90-003659
90-003676
90-005444
Genetic Engineering
90-003534
90-005213
Genetic Markers
90-000990
90-003006
Genetic Strains
90-000441
90-001320
90-002724
90-003022
90-003023
90-004903
90-005451
Genetics
90-001019
90-002053

...CONTINUED...
Oncorhynchus mykiss
Genetics
90-003019
90-003032
90-003631
90-003693
90-003702
90-003715
90-004906
90-004917
90-004920
90-005213
Gill Parasites
90-002400
90-004099
90-005942
Gills
90-000162
90-000229
90-000322
90-000327
90-000350
90-000355
90-000905
90-001902
90-001910
90-002589
90-002634
90-003454
90-005260
90-005261
90-005346
Glucose
90-000097
90-000421
90-001855
90-001998
90-003404
Gonadotropin
90-003539
90-005408
90-005409
Gonads
90-001727
90-003231
90-003277
90-003336
90-003459
90-003460
Granulomatosis
90-005942
Growth Hormone
90-000342
90-001761
90-002013
90-003465
90-003534
90-003538
90-005213
90-005244
90-005321
Growth Stimulants
90-005213
90-005321
Gyrodactylus colemanensis
90-006047
Gyrodactylus salmonis
90-006047
Habitat Alterations
90-000978
90-006623

...CONTINUED...
Oncorhynchus mykiss
Habitat Evaluation
90-003807
Habitat Improvement/General
90-004675
Habitat Protection
90-006595
Habitat Selection
90-000502
90-003807
90-004675
90-005586
90-006565
Hardness
90-005346
Hatchery Releases
90-004905
Hatchery/Wild Populations
90-001019
90-001425
90-003005
90-003006
90-003631
90-004905
90-004917
Hatching
90-000990
90-001932
90-004916
Heart
90-002440
90-003392
Heated Effluents
90-006078
Heavy Metals
90-000869
90-000885
90-002593
90-002634
90-004250
90-004329
90-004341
90-006117
90-006178
Helminths
90-006032
Hematology
90-000287
90-000290
90-000363
90-000370
90-000409
90-001805
90-001809
90-001873
90-001944
90-001956
90-001968
90-001998
90-003380
90-003490
90-003588
90-004200
90-005023
90-005190
90-005392
90-005950
90-005961
90-005984
Hemoproteins
90-001809

...CONTINUED...
Oncorhynchus mykiss
Hepatic Neoplasms
90-006179
Herpesvirus
90-000771
Histology
90-000875
90-001643
90-001951
90-003321
Hooks
90-004519
Hormones
90-000226
90-000390
90-001809
90-001868
90-001967
90-003336
90-003344
90-003519
90-005282
90-005333
Horseradish Peroxidase
90-003027
Hybrid Identification
90-000444
Hybridization
90-000444
90-003677
Hydroelectric Developments
90-002783
Hypercapnia
90-000290
Hyperoxia
90-005261
Hypothalamic-Hypophysial System
90-000342
Hypoxia
90-000113
90-000421
90-001956
90-003588
Ichthyophonus hoferi
90-004099
90-005950
Immune Response
90-000370
90-000800
90-001849
90-002398
90-003250
90-003393
90-003702
90-004110
90-004128
90-004172
90-005207
90-005318
90-005320
90-005946
90-005955
90-005961
90-006010
90-006047
90-006049
Immunization
90-000729
90-004172
90-006048
Immunoglobulins
90-000370

...CONTINUED...
Oncorhynchus mykiss
Immunoglobulins
90-001951
90-005386
Incubation
90-003040
Induced Maturation
90-001512
90-001771
90-001982
90-003044
90-004913
Industrial Wastes
90-002538
90-002606
Infectious Hematopoietic Necrosis
90-000775
90-004167
90-004174
90-004176
90-004181
90-005984
90-005987
Infectious Pancreatic Necrosis
90-004181
90-005985
Insects
90-006632
Insulin
90-001852
90-002013
Interferon
90-003393
Interspecies Relationships
90-003807
Invertebrate Forage
90-000083
90-001561
Ion Transport
90-000363
90-000885
90-001805
90-003299
90-003454
90-003503
90-005260
90-005261
90-005281
Iridoviridae
90-002431
Iron
90-000869
Karyotypes
90-005451
Kidneys
90-000106
90-001951
90-003273
90-003276
90-003277
90-003312
90-003330
Lactate
90-000272
Larvae
90-003032
90-004914
90-004915
90-005095
Lead
90-004250

...CONTINUED...
Oncorhynchus mykiss
Length-Weight Relationships
90-000572
Lernaea cyprinacea
90-002724
Leucocyte Migration
90-003330
Life History/General
90-001732
90-003041
Light
90-000875
90-001484
90-001932
90-003030
Liming
90-004639
Lipid Composition
90-000399
Lipid Content
90-000338
90-005023
90-005228
Lipid Metabolism
90-000384
90-000397
Liver
90-000106
90-000869
90-000923
90-001940
90-003273
90-003299
90-003310
90-003518
90-005266
90-005291
90-005984
Lymphocytes
90-003393
Magnesium
90-003126
90-005281
Management/Research--Lakes
90-000030
90-002193
90-002697
90-002843
90-004250
90-004504
90-004570
90-004608
Management/Research--Ponds
90-000030
Management/Research--Reservoirs
90-001320
90-002724
Management/Research--Rivers and Streams
90-000502
90-000978
90-001010
90-001019
90-001732
90-002465
90-002538
90-002865
90-004639
90-004656
90-004675
90-005841

...CONTINUED...
Oncorhynchus mykiss
Streams
90-006554
90-006592
90-006595
90-006623
90-006629
90-006632
Marking/Tagging
90-000502
90-004499
90-005740
90-005942
Masculinization
90-003336
Maturation
90-000338
90-001798
90-001868
90-001883
90-001921
90-001982
90-002186
90-003539
90-005333
90-005398
Medication In Diets
90-001510
90-003027
90-005321
Mercury
90-004329
Meristic Studies
90-001732
Metabolic Rates
90-003392
90-005219
Metabolism
90-000099
90-000100
90-000106
90-000397
90-000421
90-001855
90-001937
90-001943
90-003276
90-003413
90-005405
90-006217
Microhabitat
90-000502
90-004675
Migration
90-000572
90-001010
90-002697
90-002865
Modeling
90-002110
90-002783
90-004914
90-006163
Molybdenum
90-002588
Monosex Culture
90-002073
Morphometry
90-001732
Mortality Factors
90-000119

...CONTINUED...
Oncorhynchus mykiss
Mortality Factors
90-000120
90-004911
Movements
90-005528
90-005740
90-005841
MS-222
90-000907
Mucous Cells
90-006047
Mucus
90-000885
90-002624
90-004341
Muscle Proteins
90-000366
Musculature
90-000099
90-000100
90-000122
90-000272
90-000366
90-001547
90-001826
90-001852
90-001943
90-003569
90-005219
Mycoplasma mobile
90-002400
Myxosoma cerebralis
90-002407
Myxosporidea
90-000760
Naphthenic Hydrocarbons
90-000887
Neoechinorhynchus rutili
90-002457
Nervous System
90-000162
90-000407
90-000423
90-001909
90-005127
90-005177
Net-Pen Culture
90-000083
Nets/Misc.
90-001007
Nets/Trawls
90-002110
Nitrate
90-002465
Nitrite
90-002465
Nitrogen
90-000353
90-003569
Nutrition
90-000083
90-000097
90-000099
90-000119
90-000122
90-000249
90-000328
90-000353
90-001495
90-001547

...CONTINUED...
Oncorhynchus mykiss
Nutrition
90-001561
90-001575
90-001576
90-001578
90-001585
90-001883
90-003104
90-003126
90-003504
90-005023
90-005212
Nutritional Diseases
90-000120
Ocean Ranching
90-002186
90-006394
Oil Pollution
90-002613
Olfaction
90-001643
Organ Weights
90-005158
Organophosphates
90-001944
Orientation/Homing
90-005566
90-006394
Ormethoprim
90-002378
Osmoregulation
90-000321
90-001764
90-001909
90-003033
90-003311
90-003454
90-003538
90-003794
90-005177
Otoliths
90-003490
Overwintering
90-005101
90-005266
Oxolinic Acid
90-003413
90-004111
90-004114
90-004115
Oxygen
90-000287
90-000409
90-003022
90-003392
90-005261
Oxygenation
90-001490
90-003022
90-003023
Oxytetracycline
90-001482
90-003008
90-004090
90-004111
Paints
90-000502
Parasites/Diseases
90-000120
90-000339

...CONTINUED...
Oncorhynchus mykiss
Parasites/Diseases
90-000370
90-000729
90-000733
90-000760
90-000761
90-000771
90-000775
90-000800
90-001482
90-001510
90-001849
90-002366
90-002373
90-002378
90-002389
90-002390
90-002397
90-002398
90-002400
90-002401
90-002407
90-002414
90-002431
90-002440
90-002456
90-002457
90-002724
90-003008
90-003027
90-003413
90-003644
90-004090
90-004099
90-004102
90-004110
90-004111
90-004114
90-004115
90-004121
90-004128
90-004136
90-004137
90-004138
90-004155
90-004156
90-004164
90-004167
90-004172
90-004174
90-004176
90-004181
90-004185
90-004200
90-004210
90-004916
90-005095
90-005318
90-005908
90-005925
90-005931
90-005941
90-005942
90-005943
90-005946
90-005950
90-005955
90-005961
90-005974
90-005982

...CONTINUED...
Oncorhynchus mykiss
Parasites/Diseases
90-005984
90-005985
90-005987
90-006010
90-006028
90-006032
90-006036
90-006047
90-006048
90-006049
Parasitic Copepods
90-006028
Parasitic Tagging
90-005942
Paratenuisentis ambiguus
90-002456
Peptides
90-003482
90-003525
Pesticides
90-004363
pH
90-000327
90-000355
90-000879
90-000905
90-001902
90-002557
90-005296
90-005346
90-006113
90-006198
pH Regulation
90-000304
90-005260
90-005261
Phagocytosis
90-003250
90-005318
Phenobarbital
90-005291
Phenoxyethanol
90-000907
Phosphate
90-001944
Phosphorus
90-000353
Photoperiodism
90-001484
90-001486
90-001509
90-001752
90-001822
90-001932
90-003030
90-004913
Phthalate Esters
90-004328
Pigmenters
90-000122
90-001487
90-001495
90-001561
90-003400
90-005025
90-005053
90-005285
Pigments
90-000122
...CONTINUED...
Oncorhynchus mykiss
Pigments
90-000275
90-001495
90-003400
90-005285
Pituitary Gland
90-000226
90-000234
90-000390
90-003519
90-005282
90-005408
90-005409
Plasticizers
90-004328
90-006219
Ploidy Levels
90-002032
90-002063
Pollution
90-002465
90-002538
Pollution Avoidance
90-002100
90-002606
Polychlorinated Biphenyls
90-004365
90-006111
Polyculture
90-001010
90-005101
Polycyclic Aromatic Hydrocarbons
90-002618
90-006217
Polyploidy
90-001487
90-001937
90-002063
90-003715
Pomphorhynchus laevis
90-004185
Pond Culture
90-000030
Population Studies
90-001320
90-001732
90-002783
90-004570
90-004639
90-006554
Potassium
90-005281
Power Plants
90-006078
Predator/Prey Relationships
90-000490
90-002863
90-005584
90-005745
Production
90-004903
90-006629
Proliferative Kidney Disease
90-004110
90-004155
90-004156
90-005961
90-005974
Protein Metabolism
90-005370

...CONTINUED...
Oncorhynchus mykiss
Protein Synthesis
90-000097
90-000328
Proteins
90-000390
90-003459
90-004906
90-005641
Proteocephalus neglectus
90-004200
Protozoan Diseases
90-000760
90-000761
90-002407
90-002414
90-004155
90-004156
90-004164
90-005955
90-005961
90-005974
Pulp Mill Effluents
90-002623
90-004296
90-004362
90-004374
90-006112
90-006163
Put-and-Take
90-004504
Quinoline
90-004327
Radiation
90-000875
Rearing Density
90-003022
90-003023
90-004911
Recirculating Systems
90-004914
Reconditioning
90-002053
Recreational Benefits
90-004608
Recruitment
90-001019
90-002557
90-003807
Regression Analysis
90-004570
Renibacterium salmoninarum
90-002397
Reproduction
90-001868
90-001921
90-002053
90-002557
90-005408
Reproductive Cycle
90-001484
90-001752
90-001822
90-001967
90-003459
Reproductive System
90-003231
90-003320
90-005398
Reservoir Release Effects
90-002100

...CONTINUED...
Oncorhynchus mykiss
Respiration
90-001902
90-005260
90-005261
90-005347
Respiratory System
90-002551
Restoration of Anadromous Runs
90-002783
Reticulo-Endothelial System
90-001765
90-001849
90-005320
Rhythmicity
90-003968
Riboflavin
90-003104
Rigor Mortis
90-005392
RNA
90-001826
Rubber
90-006231
Salinity
90-000321
90-000350
90-001764
90-001909
90-003033
90-003538
90-003794
90-004099
Season
90-001486
90-001752
90-003490
90-005521
90-005586
90-005745
Sediment Bioassays
90-004365
Serratia liquefaciens
90-004121
Sewage Effluents
90-002538
Sex Determination
90-000444
90-003336
Sex Reversal
90-002073
Sexual Dimorphism
90-003276
Sodium
90-000350
90-001805
Spawning Cycle Regulation
90-001484
90-001486
90-001509
90-002053
90-003030
Spawning Substrates
90-001932
Species Identification
90-004861
Sperm
90-000032
90-000230
90-001514
90-001626

...CONTINUED...
Oncorhynchus mykiss
Sperm
90-003460
90-003469
90-005409
Sperm Preservation
90-000032
90-001620
90-001626
90-003469
Sphaerospora
90-004155
90-004156
Spleen
90-001951
90-003330
90-003436
90-003588
90-005320
Sportfishing
90-001320
90-002843
90-006554
Starvation
90-003404
90-003968
Sterilization
90-002073
Steroids
90-001798
90-001967
90-001982
90-003276
90-003277
90-003320
90-003459
90-003460
90-005408
90-005409
Stock Selection
90-002724
Stocking/Introductions
90-000990
90-001019
90-001320
90-002193
90-002724
90-003631
90-004504
90-004593
90-004903
90-006503
Stream Relocation
90-006623
Streptococcus
90-002373
90-002398
Stress
90-000242
90-000390
90-001010
90-002606
90-003320
90-003518
90-005207
Sulphadiazine
90-004111
Supplemental Stocking
90-001019
90-006394
Survival
90-000572

...CONTINUED...
Oncorhynchus mykiss
Survival
90-000990
90-002078
90-002557
90-003032
90-003693
90-003715
90-004911
90-004917
90-004920
90-006394
Swimming Performance
90-000272
90-001943
90-003751
90-005219
90-005405
90-005521
Taste Reception
90-005762
Telemetry
90-005528
Temperature
90-000030
90-000287
90-000363
90-001482
90-001510
90-001575
90-001761
90-001805
90-001937
90-003392
90-003559
90-003807
90-005213
90-005219
90-005266
Temperature Selection
90-005528
90-006565
Testosterone
90-001727
Tetracycline
90-004499
Tetraonchus awakurai
90-004099
Tetraonchus oncorhynchi
90-004099
Tetraploidy
90-003715
Thermal Pollution
90-002100
90-002697
90-006078
Thermal Tolerance
90-000363
90-005266
Thiourea
90-000321
Thymus
90-001951
90-003321
Thyroid Gland
90-000321
90-003344
90-003404
90-005228
90-006113
Thyroxine
90-001910

...CONTINUED...
Oncorhynchus mykiss
Thyroxine
90-003310
90-003344
90-003404
90-003465
90-003591
Toxicity Testing
90-002634
90-004319
Toxicology
90-002589
90-006163
Toxins
90-000923
Transportation
90-001010
Treatment
90-001482
90-002366
90-004136
90-004138
90-005925
90-005974
Trematodes
90-002457
90-004099
90-006010
90-006047
90-006048
90-006049
Trimethoprim
90-004111
Trinitrobenzene
90-002551
Triploid Fish
90-001487
90-002032
90-002078
90-003504
90-005405
Trophic Relationships
90-004250
90-004639
90-006503
Tumors
90-006036
Ultraviolet Light
90-005095
Vaccination
90-000729
90-002389
90-002390
90-002397
90-002398
90-003027
90-005908
90-005931
90-005985
Variation Studies
90-000441
90-002046
90-003622
90-004917
90-005444
Vibrio
90-002366
Vibrio anguillarum
90-002389
90-002390
90-004110

...CONTINUED...
Oncorhynchus mykiss
Vibrio anguillarum
90-005925
90-005942
Vibrio ordalii
90-005925
Viral Diseases
90-000771
90-000775
90-002366
90-002431
90-004167
90-004172
90-004174
90-004176
90-004181
90-005982
90-005984
90-005985
90-005987
Vitamins
90-000120
90-000249
90-000339
90-001547
90-001576
90-001578
90-001883
90-003104
90-005212
Vitellogenin
90-001868
90-001967
90-005397
90-005398
90-006198
Waterfalls
90-005444
Watershed Management
90-006595
Whirling Disease
90-000761
Wild Trout Management
90-006554
Winter
90-005101
90-005266
Winterkill
90-000030
Xenobiotics
90-002624
90-003276
90-003559
90-004327
90-004362
Yersinia ruckeri
90-004102
90-005925
Zinc
90-000885
90-004341
90-006117
Oncorhynchus mykiss irideus
Endocrinology
90-003501
90-003502
Gonadotropin
90-003501
90-003502
Pituitary Gland
90-003501

...CONTINUED...
Oncorhynchus mykiss irideus
Pituitary Gland
90-003502
Reproductive Cycle
90-003502
Oncorhynchus mykiss nelsoni
Management/Research--Rivers and Streams
90-002876
Population Studies
90-002876
Repopulation
90-002876
Oncorhynchus nerka
Abundance/Factors of
90-000588
Activity Patterns
90-005543
90-005544
90-005545
Actomyosins
90-000284
Adrenaline
90-005207
Age/Growth
90-002286
90-003263
90-003988
90-003990
Amino Acids
90-003357
Bioenergetics
90-002763
Carotenoids
90-000284
Climate
90-000588
Commercial Fishing
90-002247
Competition
90-004593
Coronary Lesions
90-002440
Corticosteroids
90-005207
Cortisol
90-005207
Culture/Propagation
90-001629
90-003263
90-005867
90-005989
Dams
90-002760
Data Bases
90-001629
Diagnostic Techniques
90-002416
90-004167
Digestive System
90-003224
Disease Susceptibility
90-004174
Distribution/Vertical
90-003990
90-005543
90-005544
90-005545
Early Development
90-000310
90-002857

...CONTINUED...
Oncorhynchus nerka
Early Development
90-003668
90-003990
90-005545
Egg Composition
90-000310
Egg Survival
90-002173
Electrophoresis
90-001456
90-001968
90-002054
Endocrinology
90-001815
90-005207
Enzymes
90-001968
Erythrocytic Necrosis Virus
90-005980
Escapement
90-001058
90-003829
90-004049
90-005867
90-006478
Exploitation Rates
90-002711
90-004579
Fecundity
90-002173
90-005559
Feeding Experiments
90-003263
Food Supply
90-002202
90-005544
Foods/Feeding
90-002282
90-002763
90-003263
90-005544
Forecasting
90-001058
90-006478
Genetics
90-004579
Gills
90-005132
Habitat Alterations
90-004271
Habitat Selection
90-000514
90-000599
90-002117
Harvest
90-002711
90-002924
90-003829
Hatching
90-002173
Heart
90-002440
Hematology
90-001968
90-003357
Histology
90-005132
Hooking/Handling Stress
90-004049
Hormones
90-000310

...CONTINUED...
Oncorhynchus nerka
Immune Response
90-005207
Infectious Hematopoietic Necrosis
90-004166
90-004167
90-004174
90-005989
Injuries
90-004049
International Fisheries
90-002924
Landlocked Populations
90-000554
90-001832
90-002153
90-002233
90-002286
Law of the Sea
90-002924
Laws/Law Enforcement
90-002924
Life History/General
90-000554
90-002153
90-002173
90-002857
90-003829
Logging Residue
90-001177
90-004271
Management/Research--General
90-002711
90-004579
Management/Research--Lakes
90-001177
90-002117
90-002174
90-002247
90-002282
90-002857
90-004271
90-005775
Management/Research--Marine
90-000588
90-002924
Management/Research--Reservoirs
90-001320
Management/Research--Rivers and Streams
90-002173
90-002174
90-002857
90-006478
Marking/Tagging
90-001456
Maturation
90-000588
90-002202
Migration
90-001058
90-002760
90-002857
Modeling
90-004579
Mortality Factors
90-004049
Mortality Rates
90-000588
Movements
90-002117

...CONTINUED...
Oncorhynchus nerka
Musculature
90-000284
Myxosoma cerebralis
90-002416
Nervous System
90-005336
Nests/Nesting
90-000599
Ocean Ranching
90-005867
Olfaction
90-005336
Orientation/Homing
90-002760
90-005566
Osmoregulation
90-001832
90-005132
Oxygen
90-003668
90-004271
Parasites/Diseases
90-002416
90-002440
90-004049
90-004166
90-004167
90-004174
90-005980
90-005989
Photoperiodism
90-005543
Pigments
90-000284
Pollution
90-001177
Pollution Avoidance
90-004271
Population Genetics
90-002054
90-004579
Population Studies
90-000607
90-002117
90-002174
90-002857
90-004579
Predator/Prey Relationships
90-002247
90-004049
90-005775
Protozoan Diseases
90-002416
Recruitment
90-002173
90-002174
90-002857
Salinity
90-001832
90-005132
Scales
90-002286
90-003263
90-003988
Scarring
90-004049
Sense Organs
90-005543
Sex Determination
90-001815

...CONTINUED...
Oncorhynchus nerka
Spawning
90-000599
90-005559
Spawning Substrates
90-000599
Stock Assessment
90-001456
90-002153
90-002173
90-002711
Stock Identification
90-001456
Stocking/Introductions
90-001320
Stress
90-005207
Supplemental Stocking
90-005867
Survival
90-003668
Temperature
90-000588
90-002202
90-003668
Territorial Behavior
90-002117
Thyroxine
90-000310
Trophic Relationships
90-002282
Variation Studies
90-003668
Viral Diseases
90-004166
90-004167
90-004174
90-005980
90-005989
Vision
90-005336
Water Quality
90-001177
Whirling Disease
90-002416
Zooplankton
90-001177
Oncorhynchus rhodurus
Cage Culture
90-003038
Chemoreception
90-001885
Culture/Propagation
90-003038
90-003376
Electrophysiology
90-001885
Endocrinology
90-001871
90-001921
90-002020
90-003376
Fry Production
90-003038
Fungal Diseases
90-004099
Gill Parasites
90-004099
Hematology
90-002020
Hormones
90-001871

...CONTINUED...
Oncorhynchus rhodurus
Ichthyophonus hoferi
90-004099
Larvae
90-003038
Maturation
90-001921
90-002020
Olfaction
90-001885
Osmoregulation
90-001837
Parasites/Diseases
90-004099
Parr-Smolt Transformation
90-001837
Pheromones
90-001885
Pond Culture
90-003376
Reproduction
90-001871
90-001921
Salinity
90-003038
90-004099
Season
90-001837
90-003376
Steroids
90-002020
Tetraonchus awakurai
90-004099
Tetraonchus oncorhynchi
90-004099
Thyroxine
90-003376
Trematodes
90-004099
Variation Studies
90-001837
Oncorhynchus tshawytscha
Abundance/Factors of
90-002729
90-005584
90-005662
Age/Growth
90-001488
90-001491
90-001804
Ammonia
90-004385
Anemia
90-006013
Antibodies
90-000775
Aromatic Hydrocarbons
90-002461
90-002515
Artificial Spawning Beds
90-004671
Bacterial Diseases
90-000740
90-002372
90-002387
90-002395
90-005915
90-005916
90-005937
Bacterial Kidney Disease
90-002387

...CONTINUED...
Oncorhynchus tshawytscha
Bays
90-002725
90-003904
Bioaccumulation
90-002608
Biological Indicators
90-002461
Biosorption
90-002515
90-006143
Bird Predation
90-000031
Boron
90-004340
90-006143
Brood Stock
90-001480
Cage Culture
90-000031
Catch Per Unit Effort
90-001248
Ceratomyxa shasta
90-002414
Cestodes
90-004213
Chlorinated Hydrocarbons
90-002515
Chloroguaiacols
90-006197
Chlorophenols
90-006197
Coronary Lesions
90-002440
Cortisol
90-001010
90-001916
Cryopreservation
90-001620
Culture/Propagation
90-000031
90-000733
90-000740
90-001480
90-001488
90-001491
90-001497
90-001620
90-001629
90-001804
90-001831
90-002014
90-002880
90-003017
90-003026
90-003042
90-003709
90-004092
90-005020
90-005867
90-006013
Dams
90-001010
Data Bases
90-001629
Diagnostic Techniques
90-000740
90-004167
90-005979
Digestive System
90-003481

...CONTINUED...
Oncorhynchus tshawytscha
Disease Control
90-000740
Disease Susceptibility
90-002414
Disease-Free Culture
90-000740
Dispersal
90-002026
90-002729
Distribution/Factors of
90-005841
Early Development
90-000310
90-001784
90-001916
90-002145
90-003839
90-005643
Economics
90-003026
Edwardsiella ictaluri
90-005916
Egg Composition
90-000310
Egg Survival
90-004671
EIBS
90-002431
El Nino
90-005662
Electrophoresis
90-001968
Embryology
90-001784
Endocrinology
90-001815
90-005348
Enzymes
90-001968
90-002026
90-002461
Erythromycin
90-002395
Escapement
90-005713
90-005867
Exotic Species
90-005713
Feeds
90-005020
Fertilization
90-003042
Fingerling Stocking
90-002725
90-002729
Fish Passage
90-001010
Fishing Gear
90-001248
Flow Regimes
90-000985
90-001248
90-004671
90-005662
Foods/Feeding
90-002264
90-003438
90-003971
90-005511
90-005752

...CONTINUED...
Oncorhynchus tshawytscha
Foods/Feeding
90-005763
Genetics
90-003042
90-003709
Glucose
90-003438
Growth Hormone
90-000342
90-001491
90-001804
Growth Stimulants
90-001491
Habitat Alterations
90-000985
Habitat Protection
90-006595
Habitat Selection
90-000514
Hatchery Releases
90-002026
Hatchery/Wild Populations
90-002729
90-002880
90-003722
90-005431
Hatching
90-004671
Heart
90-002440
Heated Effluents
90-006078
Helminths
90-004213
Hematology
90-001968
Hooking/Handling Mortality
90-005872
Hooks
90-005872
Hormones
90-000310
90-001784
90-001886
90-003481
Hybrid Identification
90-005431
Hybridization
90-005431
Hypothalamic-Hypophysial System
90-000342
Immune Response
90-001916
90-004092
Immunization
90-004170
Impoundment
90-000985
Imprinting
90-003017
Industrial Wastes
90-004385
Infectious Hematopoietic Necrosis
90-000775
90-004167
90-004170
Infectious Pancreatic Necrosis
90-005979
Instream Flow
90-004671

...CONTINUED...
Oncorhynchus tshawytscha
Iridoviridae
90-002431
Kidneys
90-005963
Leukemia
90-005963
90-006013
Life History/General
90-002145
90-005643
Light
90-001804
Liver
90-002461
90-003438
Lunar Influences
90-001831
Lymphocystis
90-005937
Management/Research--Estuaries
90-002515
Management/Research--Lakes
90-002697
90-004608
Management/Research--Marine
90-002725
90-003708
Management/Research--Rivers and Streams
90-000985
90-001010
90-001248
90-002729
90-002880
90-004671
90-005662
90-005713
90-005841
90-006595
Marking/Tagging
90-001455
Maturation
90-001480
90-002014
Medication In Diets
90-002395
Metabolism
90-003438
Microsporidia
90-005937
Migration
90-001010
90-002026
90-002145
90-002697
90-003792
90-003839
90-003904
90-005643
Molybdenum
90-004340
90-006143
Movements
90-003904
90-005528
90-005841
Muscle Proteins
90-000366
Musculature
90-000366

...CONTINUED...
Oncorhynchus tshawytscha
Mycobacterium neoaurum
90-005915
Myxosoma cerebralis
90-002407
Nests/Nesting
90-000985
Net-Pen Culture
90-001480
90-001488
Nutrition
90-001886
90-004092
Nutritional Diseases
90-004092
Ocean Ranching
90-003017
90-003026
90-005867
Orientation/Homing
90-003017
90-005566
Osmoregulation
90-002014
Overwintering
90-006197
Pancreas
90-005348
Parasites/Diseases
90-000733
90-000740
90-000775
90-002372
90-002387
90-002395
90-002407
90-002414
90-002431
90-002440
90-004092
90-004167
90-004170
90-004213
90-005915
90-005916
90-005937
90-005963
90-005979
90-006013
90-006036
Parental Transfer
90-002372
90-002387
Parr-Smolt Transformation
90-001831
90-001916
90-005270
Peptides
90-003481
Photoperiodism
90-001488
90-001497
90-001804
90-003792
Ploidy Levels
90-002032
90-002051
Pollution
90-002515
Pollution Avoidance
90-002100

...CONTINUED...
Oncorhynchus tshawytscha
Polyculture
90-001010
Polyploidy
90-003709
Population Genetics
90-000477
90-003620
90-003722
Population Studies
90-005713
Poultry Meal
90-005020
Power Plants
90-006078
Predator/Prey Relationships
90-005584
Protozoan Diseases
90-002407
90-002414
90-005963
Pulp Mill Effluents
90-006197
Rearing Density
90-000031
90-003026
Recreational Benefits
90-004608
Recruitment
90-005662
Renibacterium salmoninarum
90-000740
90-002372
90-002387
90-002395
90-005937
Reproduction
90-002461
Reservoir Release Effects
90-002100
Rheotropism
90-003792
Rhodococcus
90-005915
Salinity
90-001488
90-001804
90-002014
Sediment Bioassays
90-004385
Selective Breeding
90-003042
Selenium
90-002608
90-004340
90-006143
Sewage Effluents
90-004385
Sex Determination
90-001815
Shoaling Behavior
90-005726
Size at Release
90-003026
Spawning
90-000985
90-005713
90-005726
Spawning Channels
90-004671
Spawning Cycle Regulation
90-001497

...CONTINUED...
Oncorhynchus tshawytscha
Spawning Substrates
90-000985
Sperm Preservation
90-001620
Spleen
90-005963
Starvation
90-005348
Stock Assessment
90-002880
90-003708
Stock Identification
90-003708
Stocking/Introductions
90-002026
90-002725
90-002729
90-003026
Stress
90-001010
90-001916
Supplemental Stocking
90-005867
Survival
90-000031
90-001480
90-002026
90-002729
90-003026
Telemetry
90-005528
Temperature
90-003839
Temperature Selection
90-005528
Thermal Pollution
90-002100
90-002697
90-006078
Thyroxine
90-000310
90-001784
90-001831
90-005270
Transportation
90-001010
90-002725
Treatment
90-002372
90-002395
Trematodes
90-004213
Triploid Fish
90-002032
90-003709
Tumors
90-006036
Urban Runoff
90-002515
Variation Studies
90-002145
90-003792
90-003839
90-005643
Viral Diseases
90-000775
90-002431
90-004167
90-004170
90-005979

...CONTINUED...
Oncorhynchus tshawytscha
Vitamins
90-004092
Watershed Management
90-006595
Wild Trout Management
90-002880
Ophicephalus gachua
Air Breathing
90-000359
Chlorinated Hydrocarbons
90-002646
Early Development
90-000359
Endosulfan
90-002646
Gills
90-000359
Insecticides
90-002646
Respiration
90-000359
Ophicephalus maculatus
Bacterial Diseases
90-002376
Culture/Propagation
90-002376
Nocardia asteroides
90-002376
Parasites/Diseases
90-002376
Ophicephalus marulius
Life History/General
90-000558
Ophicephalus micropeltes
Amino Acids
90-005063
Diets
90-005063
Ophicephalus punctatus
Ammonia
90-000871
90-005353
Cadmium Chloride
90-000871
Clinostomum giganticum
90-004221
Culture/Propagation
90-001617
Cytology
90-005214
Dichlorvos
90-002599
Enzymes
90-002002
Euclinostomum heterostomum
90-004221
Excretory System
90-005353
Exercise
90-002002
Feeding Experiments
90-001617
Heavy Metals
90-002596
Hematology
90-002596
Histology
90-002002
Industrial Wastes
90-000871

...CONTINUED...
Ophicephalus punctatus
Insecticides
90-002599
Life History/General
90-000558
Liver
90-002115
Mercury
90-005214
Methyl Mercuric Chloride
90-000871
Musculature
90-002002
Nickel
90-002596
Parasites/Diseases
90-004221
Phagocytosis
90-005214
Phenols
90-000871
Pond Culture
90-001617
Rearing Density
90-001617
Reproductive Cycle
90-002115
Reticulo-Endothelial System
90-005214
Rice-Fish Culture
90-001617
Temperature
90-005353
Thermal Tolerance
90-005353
Thyroid Gland
90-000871
Trematodes
90-004221
Urea
90-005353
Vitellogenin
90-002115
Ophicephalus striatus
Age/Growth
90-004970
Amino Acids
90-005063
Ammonia
90-004970
Ammonium Chloride
90-004970
Culture/Propagation
90-001520
90-004970
90-005407
Diets
90-005063
Disease-Free Culture
90-005981
Disinfection
90-005981
Feeds
90-005407
Food Conversion Efficiency
90-004970
Life History/General
90-000558
Management/Research--General
90-001520
Nutrition
90-005407

...CONTINUED...
Ophicephalus striatus
Parasites/Diseases
90-000772
90-005981
Population Studies
90-001520
Proteins
90-005407
Rhabdovirus
90-000772
90-005981
Rice Paddies
90-001520
Rice-Fish Culture
90-001520
Tropics
90-001520
Viral Diseases
90-000772
90-005981
Ophidion lozanoi
New Species
90-005884
Ophiodon elongatus
Bile
90-003584
Enzymes
90-003584
Life History/General
90-003836
Liver
90-003584
Maturation
90-004587
Modeling
90-004587
Opisthonema bulleri
Fecundity
90-002207
Maturation
90-002207
Reproduction
90-002207
Opisthonema libertate
Early Development
90-005145
Eggs
90-005145
Opisthonema medirastre
Fecundity
90-002207
Maturation
90-002207
Reproduction
90-002207
Opisthonema oglinum
Abundance/Factors of
90-005637
Distribution/Seasonal
90-005637
DNA
90-005502
Early Development
90-005637
Life History/General
90-005637
Mitochondria
90-005502
Opistognathidae
Olfaction
90-003238

...CONTINUED...
Opistognathidae
Osteology
90-003238
Taxonomy
90-003238
Opistognathus aurifrons
Aquariums
90-001600
Culture/Propagation
90-003150
Oplada melanura
Eyes
90-000228
Oplegnathus fasciatus
Culture/Propagation
90-002432
Parasites/Diseases
90-002432
Swimming Performance
90-005553
Viral Diseases
90-002432
Opsanus beta
Benzo(a)pyrene
90-000892
90-002619
Biotransformation
90-002619
Enzymes
90-000411
Exercise
90-000412
90-000413
Ion Transport
90-002010
Lactate
90-000413
Lactate Dehydrogenase
90-000413
Liver
90-000411
pH
90-000411
pH Regulation
90-000412
90-002010
Temperature
90-002619
Urea
90-000411
Xenobiotics
90-000892
Opsanus tau
Bioluminescence
90-000925
Phagocytosis
90-000925
Reticulo-Endothelial System
90-006195
Tributyltin
90-000925
90-006195
Opsaridium microlepis
Brood Stock
90-002200
Gonosomatic Index
90-002200
Reproduction
90-002200
Opsopoeodus emiliae
Chromosomes
90-002034
...CONTINUED...
Opsopoeodus emiliae
Karyotypes
90-002034
Oreoleuciscus
Age/Growth
90-003995
Otoliths
90-003995
Orestias laucaensis
Foods/Feeding
90-005630
Life History/General
90-005630
Morphology
90-005630
Trophic Relationships
90-005630
Orsinigobius punctatissimus
Meristic Studies
90-005828
Orthodon microlepidotus
Foods/Feeding
90-002125
Gill Rakers
90-002125
Oryzias javanicus
Enzymes
90-002044
Hybridization
90-002044
Salinity
90-000289
Oryzias latipes
Abnormalities
90-005137
Age/Growth
90-002123
Androgen
90-000223
Asbestos
90-006105
Benzo(a)pyrene
90-004343
Biological Monitoring
90-000876
Carcinogens
90-000876
90-004343
Chlorinated Dibenzo-p-Dioxins
90-004404
Cytology
90-000188
Dibenzofuran
90-004404
Dioxin
90-004404
90-006240
Early Development
90-005137
90-006166
Eggs
90-000188
Embryology
90-003332
Evolution
90-000468
Fenitrothion
90-002616
Fin Rays
90-000223
Genetic Diversity
90-000468

...CONTINUED...
Oryzias latipes
Hormones
90-000223
Insecticides
90-002616
Liver
90-000876
Lymphocystis
90-002449
Modeling
90-000876
Organotins
90-002659
Parasites/Diseases
90-002449
Phthalate Esters
90-004328
Plasticizers
90-004328
Polychlorinated Biphenyls
90-000876
Polycyclic Aromatic Hydrocarbons
90-004343
Reproductive System
90-000188
Social Behavior
90-002123
Toxicity Testing
90-006166
Toxicology
90-000876
Tributyltin
90-002659
Tumors
90-002449
Urea
90-006166
Oryzias melanostiga
Enzymes
90-002044
Hybridization
90-002044
Oryzias melastigma
Enzymes
90-002044
Hybridization
90-002044
Osmeridae
Bird Predation
90-002259
Osmerus
Distribution/Geographical
90-005623
Life History/General
90-005623
Osmerus eperlanus
Acidification
90-004712
Age/Growth
90-005805
Anguillicola crassus
90-004202
Condition Factors
90-004093
Disease Susceptibility
90-004093
Early Development
90-005805
Eutrophication
90-005805
Habitat Selection
90-004619

...CONTINUED...
Osmerus eperlanus
Management/Research--Lakes
90-004619
90-005805
Nematodes
90-004202
Parasites/Diseases
90-004093
90-004202
Population Studies
90-004619
Predator/Prey Relationships
90-002863
Recruitment
90-004712
Trophic Relationships
90-004093
Osmerus mordax
Age/Growth
90-002275
Bioaccumulation
90-006081
Biomagnification
90-000873
Bird Predation
90-000873
Catch Per Unit Effort
90-002752
Chlorinated Hydrocarbons
90-000873
Currents
90-000616
90-002084
Distribution/Factors of
90-000616
Distribution/Vertical
90-000616
90-003738
Fatty Acids
90-000344
Flow Regimes
90-002084
Food Supply
90-002084
Foods/Feeding
90-002084
90-003738
90-005763
Ichthyoplankton
90-002824
Larval Behavior
90-000616
90-002084
90-003738
Larval Drift
90-000616
Life History/General
90-000533
90-002851
Light
90-002084
Lipid Composition
90-000344
Management/Research--Estuaries
90-000616
90-003738
Management/Research--Lakes
90-000159
90-002273
90-002851
90-006507

...CONTINUED...
Osmerus mordax
Migration
90-000592
Nets/Trawls
90-002752
Nursery Areas
90-000616
90-002824
90-003738
90-004697
Parasites/Diseases
90-002430
Plankton
90-000159
Polychlorinated Biphenyls
90-006081
Population Studies
90-002851
Predator/Prey Relationships
90-000159
90-002273
90-002275
90-005752
Primary Production
90-000159
Reproductive System
90-000344
Rotavirus
90-002430
Spawning
90-000592
Stock Assessment
90-002275
Trophic Relationships
90-000159
90-002273
90-006081
90-006507
Viral Diseases
90-002430
Zooplankton
90-000159
Osphronemus goramy
Aquariums
90-003158
Bacterial Flora
90-001962
Culture/Propagation
90-003158
Osteoglossum
Teeth
90-001730
Tongue
90-001730
Otopharynx walteri
Life History/General
90-004072
New Species
90-004072
Oxycirrhites typus
Management/Research--Marine
90-000493
Mate Selection
90-000493
Monogamy
90-000493
Social Behavior
90-000493
Pachycara
Fish Lists/Keys
90-002339
...CONTINUED...
Pachycara
Taxonomy
90-002339
Pachycara crossacanthum
New Species
90-002339
Pachycara mesoporum
New Species
90-002339
Pachycara pammelas
New Species
90-002339
Pachycara rimae
New Species
90-002339
Pachycara shcherbachevi
New Species
90-002339
Pachycara sulkai
New Species
90-002339
Padogobius martensi
Distribution/Geographical
90-005828
Meristic Studies
90-005828
Zoogeography
90-005828
Pagellus acarne
Eyes
90-000228
Pagellus bogaraveo
Eyes
90-000228
Pagellus erythrinus
Eyes
90-000228
Pagothenia bernacchi
Hematology
90-003589
Thermal Tolerance
90-003589
Pagothenia borchgrevinki
Brain
90-003487
Nervous System
90-003487
Pagrus major
Acoustical Methods
90-006762
Age/Growth
90-000586
90-005034
Air Bubblers
90-003761
Bactericides
90-004114
Barriers
90-003761
Bays
90-000586
90-005779
Brood Stock
90-004999
Carcass Traits
90-000337
Catch Per Unit Effort
90-001077
Computer Applications
90-001049
Culture/Propagation
90-000337

...CONTINUED...
Pagrus major
Culture/Propagation
90-004999
90-005034
90-005046
90-005049
90-005056
90-005090
Diets
90-000337
90-005049
Early Development
90-000416
Echo Sounder
90-006762
Enzymes
90-005273
90-005491
Exploitation Rates
90-001077
Fatty Acids
90-000416
90-005049
90-005324
Feeding Attractants
90-005034
90-005046
Feeding Experiments
90-005046
90-005056
Feeds
90-005046
90-005049
Foods/Feeding
90-005779
Genetic Diversity
90-005491
Hatchery/Wild Populations
90-004999
Hormones
90-005090
Immunoglobulins
90-005386
Induced Maturation
90-005090
Invertebrate Forage
90-005056
Length-Weight Relationships
90-005139
Lipid Content
90-005139
Lipid Metabolism
90-005324
Liver
90-005324
Management/Research--Marine
90-000586
90-001037
Marking/Tagging
90-000586
90-004495
Mortality Rates
90-000586
Multispecies Management
90-001077
Musculature
90-000337
90-005324
Nursery Areas
90-000586
Nutrition
90-000416

...CONTINUED...
Pagrus major
Nutrition
90-005049
Oxolinic Acid
90-004114
90-004115
Pancreas
90-005273
Parasites/Diseases
90-004114
90-004115
Pond Culture
90-005056
Population Genetics
90-005491
Population Studies
90-001077
Proteins
90-003604
Selective Breeding
90-004999
Stock Assessment
90-001037
Stocking/Introductions
90-001049
Survival
90-001049
Trophic Relationships
90-005779
Variation Studies
90-005491
Yield-per-Recruit
90-001077
Pagrus pagrus
Coexistence
90-004755
Distribution/Seasonal
90-004755
Harvest
90-004480
Management/Research--Marine
90-004480
Palatogobius paradoxus
Population Studies
90-005677
Pampus argenteus
Age/Growth
90-003991
DDT
90-002644
Distribution/Seasonal
90-003900
Early Development
90-003817
Foods/Feeding
90-003944
Gonosomatic Index
90-003882
Harvest
90-003900
Life History/General
90-003817
Management/Research--Marine
90-003854
Maturation
90-003882
Mortality Rates
90-003854
Pesticides
90-002644
Population Studies
90-003854

...CONTINUED...
Pampus argenteus
Recruitment
90-003854
Spawning
90-003882
Stock Assessment
90-003854
Taxonomy
90-003817
Pampus echinogaster
Age/Growth
90-003991
Distribution/Seasonal
90-003900
Early Development
90-003817
Foods/Feeding
90-003944
Gonosomatic Index
90-003882
Harvest
90-003900
Life History/General
90-003817
Management/Research--Marine
90-003854
Maturation
90-003882
Mortality Rates
90-003854
Population Studies
90-003854
Recruitment
90-003854
Spawning
90-003882
Stock Assessment
90-003854
Taxonomy
90-003817
Pangasius sutchi
Cage Culture
90-004969
Culture/Propagation
90-004964
90-004969
Economics
90-004964
Maturation
90-005390
Polyculture
90-004964
Reproduction
90-005390
Water Quality
90-004969
Pantodon
Teeth
90-001730
Tongue
90-001730
Parablennius
Distribution/Geographical
90-005875
Fish Lists/Keys
90-005875
Taxonomy
90-005875
Parablennius tasmanianus caledoniensis
Morphology
90-000705
...CONTINUED...
Parablennius tasmanianus caledoniensis
New Species
90-000705
Parabramis pekinensis
Distribution/Geographical
90-003845
Histology
90-003845
Life History/General
90-003845
Parabrotula plagiophthalma
Distribution/Geographical
90-005851
Meristic Studies
90-005851
Taxonomy
90-005851
Paracallionymus costatus
Predator/Prey Relationships
90-003938
Paracanthurus hepatus
Lateral Line Erosion
90-002435
Parasites/Diseases
90-002435
Paracheilinus bellae
Morphology
90-000716
New Species
90-000716
Paracheirodon
Culture/Propagation
90-003150
Paragobiodon
Gonads
90-005125
Hermaphroditism
90-005125
Variation Studies
90-005125
Paralabrax
Foods/Feeding
90-003972
Larval Behavior
90-003972
Paralabrax clathratus
Egg Identification
90-004069
Egg Preservation
90-004069
Habitat Selection
90-006701
Kelp Forests
90-006701
Larval Identification
90-004069
Paralabrax maculatofasciatus
Egg Identification
90-004069
Egg Preservation
90-004069
Larval Identification
90-004069
Paralabrax nebulifer
Egg Identification
90-004069
Egg Preservation
90-004069
Enzymes
90-001906
Larval Identification
90-004069

...CONTINUED...
Paralabrax nebulifer
Nervous System
90-001906
pH
90-001906
Swimming Performance
90-001906
Paralichthys
Distribution/Geographical
90-002317
Larval Drift
90-002317
Paralichthys californicus
Foods/Feeding
90-003972
Larval Behavior
90-003972
Paralichthys dentatus
Commercial Fishing
90-000543
Early Development
90-003798
Eggs
90-003798
Life History/General
90-000543
Management/Research--Estuaries
90-003798
Nursery Areas
90-003798
Recruitment
90-003798
Paralichthys olivaceus
Activity Patterns
90-003943
Age/Growth
90-005034
90-006497
Age/Length Composition
90-006497
Bacterial Diseases
90-002393
90-004122
Bacterial Flora
90-005388
Bactericides
90-004114
Coloration
90-003225
Cortisol
90-005216
Crypsis
90-003225
Culture/Propagation
90-001548
90-001693
90-002393
90-003416
90-005034
Digestive System
90-005388
Early Development
90-001693
90-005216
90-005388
Ectoparasites
90-004163
Endocrinology
90-005216
Feeding Attractants
90-005034

...CONTINUED...
Paralichthys olivaceus
Feeds
90-001548
Foods/Feeding
90-003943
Hatchery/Wild Populations
90-001693
90-003416
Hormones
90-005216
Ichthyobodo necator
90-004163
Intestinal Lesions
90-002393
90-004122
Invertebrate Forage
90-001548
Metamorphosis
90-005290
Oxolinic Acid
90-004114
90-004115
Parasites/Diseases
90-002393
90-004114
90-004115
90-004122
90-004163
Photoperiodism
90-003943
Protozoan Diseases
90-004163
Rigor Mortis
90-003416
Sense Organs
90-001693
Shrimp
90-003943
Thyroid Gland
90-005216
Variation Studies
90-001693
Vibrio
90-002393
90-004122
Vision
90-005290
Paraliparis
Migration
90-003897
Paralonchurus peruanus
Gill Parasites
90-000796
Hargicotyle
90-000796
Parasites/Diseases
90-000796
90-006023
Pseudohaliotrema paralonchuri
90-006023
Trematodes
90-000796
90-006023
Paramphilius teugelsi
Morphology
90-000717
New Species
90-000717
Paranotothenia magellanica
Bird Predation
90-005802

Parapercis clathrata
Coexistence
90-005572
Competition
90-005572
Foods/Feeding
90-005572
Habitat Selection
90-005572
Niche Overlaps
90-005572
Reef Fish Communities
90-005572
Parapercis polyophthalma
Coexistence
90-005572
Competition
90-005572
Foods/Feeding
90-005572
Habitat Selection
90-005572
Niche Overlaps
90-005572
Reef Fish Communities
90-005572
Parasilurus asotus
Culture/Propagation
90-004956
Early Development
90-004956
Egg Collection
90-004956
Egg Production
90-004956
Hatching
90-004956
Musculature
90-003569
Nitrogen
90-003569
Parasphyraenops incisus
Distribution/Geographical
90-000675
Parastromateus niger
Catch Per Unit Effort
90-004787
Distribution/Seasonal
90-004787
Management/Research--Marine
90-004787
Parauchenipterus galeatus
Aquariums
90-001597
Culture/Propagation
90-001597
Spawning
90-001597
Parophrys vetulus
Carcinogens
90-004372
90-004392
Commercial Fishing
90-000550
DNA
90-006151
Heavy Metals
90-006208
Hematology
90-006151
Hepatic Neoplasms
90-004372

...CONTINUED...
Parophrys vetulus
Hepatic Neoplasms
90-004392
Hormones
90-006151
Life History/General
90-000550
Liver
90-004372
90-004392
Management/Research--Estuaries
90-001362
90-004700
Nursery Areas
90-004700
Parasites/Diseases
90-004372
90-004392
Population Studies
90-001362
Pulp Mill Effluents
90-006208
Toxicity Testing
90-006208
Water Quality
90-001362
Xenobiotics
90-004372
90-004392
Zinc
90-006208
Parosphromenus nagyi
Aquariums
90-005080
Courtship
90-005080
Culture/Propagation
90-005080
Parupeneus multifasciatus
Taste Reception
90-001762
Parupeneus pleurotaenia
Age/Growth
90-003808
Length-Weight Relationships
90-003808
Life History/General
90-003808
Morphology
90-003808
Patagonina hatcheri
Helminths
90-006032
Parasites/Diseases
90-006032
Pellonula afzeliusi
Biochemical Composition
90-000253
Stocking/Introductions
90-000994
Survival
90-000994
Pelmatochromis pulcher
Coloration
90-002131
Communication
90-002131
Intraspecies Relationships
90-002131
Nests/Nesting
90-002131

Pelvicachromis
Sex Determination
90-003445
Peprilus burti
Abundance/Factors of
90-003853
Management/Research--Marine
90-003853
Satellite Imagery
90-003853
Temperature
90-003853
Perca flavescens
Abundance/Factors of
90-005870
90-006569
Acidification
90-004267
90-004613
90-005327
90-006218
Age/Growth
90-000661
90-000700
90-004613
90-005560
90-006569
Beaver Ponds
90-004686
Bioaccumulation
90-002542
90-004326
90-004339
90-004394
90-006218
Bioenergetics
90-001017
90-002147
90-003517
90-003873
Cardiovascular System
90-001758
Climate
90-005870
90-006471
Competition
90-005560
Condition Factors
90-004394
Daphnia
90-003930
Dioxin
90-002542
Distribution/Factors of
90-005870
90-006569
Early Development
90-003517
Egg Predation
90-003745
Enzymes
90-002630
Evolution
90-005167
Exercise
90-005327
Exotic Species/Canada: British Columbia
90-005606
Eyes
90-005167

...CONTINUED...
Perca flavescens
Fecundity
90-003873
Fish Kills
90-006095
Food Supply
90-003930
Foods/Feeding
90-000624
90-000635
90-000639
90-000661
90-001017
90-002274
90-003873
Forecasting
90-006471
Habitat Alterations
90-006320
Heart
90-001758
Heavy Metals
90-004326
90-004339
90-004394
Histology
90-005167
Ichthyoplankton
90-002824
Interspecies Relationships
90-004592
90-005560
Life History/General
90-005606
Liming
90-004267
90-004613
Liver
90-002630
Management/Research--Lakes
90-000635
90-002820
90-004267
90-004592
90-004613
90-004623
90-005560
90-005913
90-006095
90-006218
90-006320
90-006466
90-006471
90-006507
Maximum Sustainable Yield
90-006471
Mercuric Chloride
90-002630
Mercury
90-002630
90-004326
90-004339
90-004394
Modeling
90-006466
Mortality Factors
90-000700
90-006320
Mortality Rates
90-003873
90-006320

...CONTINUED...
Perca flavescens
Musculature
90-002630
90-005327
Niche Overlaps
90-005560
Nursery Areas
90-002824
Orientation/Homing
90-005504
Overwintering
90-000700
Parasites/Diseases
90-005913
pH
90-005327
90-006218
Planning
90-006466
Population Studies
90-002147
90-002820
90-004592
90-005560
90-006466
Power Plants
90-006320
Predator/Prey Relationships
90-000624
90-002274
90-003930
90-005745
Recruitment
90-006320
Reproduction
90-003873
90-004613
90-006569
Season
90-005745
Social Behavior
90-000661
Spawning
90-005504
Stocking/Introductions
90-005606
90-006095
Summerkill
90-006095
Survival
90-000700
90-004613
90-005606
Temperature
90-000639
90-001758
Trophic Relationships
90-002147
90-002542
90-004623
90-006095
90-006507
Winter
90-000700
Winterkill
90-000700
Zoogeography
90-005870
Perca fluviatilis
Abundance/Factors of
90-004611

...CONTINUED...
Perca fluviatilis
Abundance/Factors of
90-004634
90-005870
Acidification
90-002518
90-003887
90-004712
Activity Patterns
90-001140
Age/Growth
90-001114
90-003959
90-005805
Aluminum
90-002518
Anguillicola crassus
90-004202
Bacterial Flora
90-003008
Bioaccumulation
90-002518
90-006235
Biological Monitoring
90-000811
Biomass
90-006657
Biosorption
90-000811
90-000847
Bird Predation
90-002338
Cadmium
90-004236
Carbophos
90-002595
Cardiovascular System
90-005187
Climate
90-005870
Commercial Fishing
90-004618
90-004680
Compensatory Swimming
90-002122
Competition
90-003733
Currents
90-002122
Cytochrome
90-000219
Distribution/Factors of
90-005870
Distribution/Vertical
90-000611
90-004611
Early Development
90-005782
90-005805
Echo Sounder
90-004611
Enzymes
90-000219
Eutrophication
90-004611
90-005805
Exotic Species/Italy
90-004500
Eyes
90-003407
Fin Erosion
90-006164

...CONTINUED...
Perca fluviatilis
Fish Control/Removal
90-002846
90-006539
Fish Preservation
90-006772
Food Supply
90-005749
Foods/Feeding
90-000632
90-001114
90-003733
90-003959
90-005749
90-005782
Gear Selectivity
90-004522
Habitat Selection
90-001140
90-004619
Heart
90-005187
Heavy Metals
90-000847
90-002518
90-003406
90-004236
90-006235
Interspecies Relationships
90-001140
Lead
90-004236
Management/Research--Lakes
90-000847
90-001114
90-001140
90-002518
90-002846
90-003199
90-003887
90-004618
90-004619
90-004634
90-005805
90-006518
90-006539
Management/Research--Ponds
90-003733
Management/Research--Reservoirs
90-006649
90-006657
90-006659
Mercury
90-000847
90-002518
90-004236
90-006235
Metallothionein
90-003406
Nematodes
90-004202
Nets/Gill Nets
90-004522
Nets/Netting
90-004522
Organophosphates
90-002595
Orientation/Homing
90-002122
Oxytetracycline
90-003008

...CONTINUED...
Perca fluviatilis
Parasites/Diseases
90-000765
90-004202
90-005993
90-006164
Parasitic Copepods
90-005993
Phosphorus
90-003199
Pigments
90-003407
Playas
90-004618
Pollution Abatement
90-000847
Pollution Tolerance
90-002595
Population Studies
90-000951
90-004619
90-006518
90-006657
Predator/Prey Relationships
90-000632
90-005580
90-005749
90-005757
Protozoan Diseases
90-000765
Pulp Mill Effluents
90-006164
Recruitment
90-004712
90-006659
Salinity
90-004406
Season
90-005749
Selenium
90-000847
Shoaling Behavior
90-004611
Spawning
90-003887
Stocking/Introductions
90-004500
90-006503
Storage Effects
90-006772
Strontium
90-000811
Swimming Performance
90-002122
Temperature
90-005187
Toxicity Testing
90-003406
Tracheliastes maculatus
90-005993
Tributyltin
90-004406
Trophic Relationships
90-000811
90-003733
90-003959
90-004618
90-006503
90-006518
90-006519
90-006539

...CONTINUED...
Perca fluviatilis
Trophic Relationships
90-006649
90-006659
Trypanosoma percae
90-000765
Water Level Fluctuations
90-006659
Water Quality
90-004634
90-006659
Wetlands
90-000951
Xenobiotics
90-003406
Yield
90-004634
Zoogeography
90-005870
Percina caprodes
Distribution/Geographical
90-004036
Percina macrocephala
Coexistence
90-000529
Habitat Selection
90-000529
Percina macrolepida
Distribution/Geographical
90-004036
Percina nigrofasciata
Coexistence
90-000529
Habitat Selection
90-000529
Percina palmaris
Coexistence
90-000529
Habitat Selection
90-000529
Percina pantherina
Habitat Selection
90-002148
Life History/General
90-002148
Reproduction
90-002148
Percina roanoka
Habitat Selection
90-006598
Percophidae
Fish Lists/Keys
90-005852
Periophthalmodon schlosseri
Gills
90-001866
90-005172
Hypoxia
90-001866
Lactate
90-001866
Respiratory System
90-005172
Periophthalmus chrysospilos
Carbohydrate Metabolism
90-003412
Enzymes
90-003412
Gills
90-003412
Hypoxia
90-003412
...CONTINUED...
Periophthalmus chrysospilos
Lactate
90-003412
Oxygen
90-003412
Petromyzon
Immune Response
90-005474
Variation Studies
90-005474
Petromyzon marinus
Abundance/Factors of
90-002224
90-002869
90-005649
Age/Growth
90-005649
Antibodies
90-001795
Bayer 73
90-002106
Bioenergetics
90-001020
Biological Indicators
90-006319
Brain
90-003354
Chemical Reclamation
90-002715
Climate
90-006319
Distribution/Factors of
90-002224
Distribution/Geographical
90-002869
Endocrinology
90-003354
Exotic Species/Great Lakes
90-006509
Fish Control/Removal
90-002106
Foods/Feeding
90-001020
Gonadotropin
90-001774
90-001795
Habitat Selection
90-002106
90-002224
Heavy Metals
90-003464
Histology
90-003226
Hormones
90-001774
90-001795
Interspecies Relationships
90-006540
Iron
90-003464
Kidneys
90-003226
Lamprey Control
90-002106
90-002715
90-004592
Lamprey Parasitism
90-001020
90-006548
Lampricides
90-002106

...CONTINUED...
Petromyzon marinus
Landlocked Populations
90-005649
Larval Behavior
90-002106
Life History/General
90-002106
90-002869
Management/Research--Lakes
90-004592
90-006540
90-006548
Metamorphosis
90-000212
Methylmercury
90-000918
Nervous System
90-003574
Parasites/Diseases
90-001020
Pars Distalis
90-000212
Peptides
90-003354
Predator/Prey Relationships
90-001020
90-005654
Reproduction
90-001774
Respiration
90-003574
Temperature
90-006319
Thermal Pollution
90-006548
Xenobiotics
90-003464
Petromyzontidae
Endocrinology
90-005258
Evolution
90-005258
Petrotilapia nigra
Digestive System
90-003255
Foods/Feeding
90-003970
Phallostethidae
Fish Lists/Keys
90-002355
Morphology
90-002355
Taxonomy
90-002355
Pharyngochromis darlingi
Age/Growth
90-002160
Management/Research--Reservoirs
90-002160
Population Studies
90-002160
Tropics
90-002160
Phenacobius catostomus
Evolution
90-003652
Phenacobius mirabilis
Evolution
90-003652
Phenacobius uranops
Allozymes
90-005446
Phenacogrammus interruptus
Aquariums
90-000137
Pholis gunnellus
Parasites/Diseases
90-004251
Pollution
90-004251
Phoxinellus hispanicus
Management/Research--Rivers and Streams
90-006613
Trophic Relationships
90-006613
Phoxinus eos
Beaver Ponds
90-004686
Bog Lakes
90-002159
Catch Per Unit Effort
90-002159
Hybridization
90-005454
Management/Research--Lakes
90-002159
Population Studies
90-002159
Sampling
90-002159
Traps/Minnow Traps
90-002159
Phoxinus neogaeus
Bog Lakes
90-002159
Catch Per Unit Effort
90-002159
Hybridization
90-005454
Management/Research--Lakes
90-002159
Population Studies
90-002159
Sampling
90-002159
Traps/Minnow Traps
90-002159
Phoxinus oreas
Habitat Selection
90-006598
Phoxinus phoxinus
Age/Growth
90-000492
Bioenergetics
90-000492
Biosorption
90-006125
Flow Regimes
90-006567
Food Conversion Efficiency
90-000492
Foods/Feeding
90-000492
90-000656
Heavy Metals
90-006125
Mercury
90-006125
Metabolic Rates
90-000248
Recruitment
90-006567

...CONTINUED...
Phoxinus phoxinus
Schooling Behavior
90-000492
Season
90-000656
Selenium
90-006125
Temperature
90-000248
Phractocephalus
Taxonomy
90-004073
Physailia pellucida
Stocking/Introductions
90-000994
Survival
90-000994
Pietschichthys
New Genus
90-002349
Pietschichthys horridus
Morphology
90-002349
New Species
90-002349
Pillia indica
Foods/Feeding
90-000641
Pimelodidae
Reproductive System
90-001705
Pimelodus clarias
Commercial Fishing
90-006660
Management/Research--Reservoirs
90-006660
Tropics
90-006660
Pimelodus maculatus
Enzymes
90-000367
Heavy Metals
90-000367
Hematology
90-000367
Liver
90-000367
Pimephales
Courtship
90-002205
Eggs
90-002205
Spawning
90-002205
Territorial Behavior
90-002205
Pimephales notatus
Abundance/Factors of
90-006569
Acid Mine Water
90-000812
Age/Growth
90-006569
Beaver Ponds
90-004686
Distribution/Factors of
90-006569
Foods/Feeding
90-000635
Management/Research--Lakes
90-000635

...CONTINUED...
Pimephales notatus
Management/Research--Rivers and Streams
90-000812
Pollution
90-000812
Reproduction
90-006569
Pimephales promelas
Age/Growth
90-000898
90-004320
Alcohols
90-002642
Aliphatic Hydrocarbons
90-002617
Ammonia
90-000897
90-002565
Anilines
90-004398
Aromatic Hydrocarbons
90-002617
90-004375
Baitfish
90-006638
Beaver Ponds
90-004686
Behavior
90-002586
90-004320
90-006127
Benzene
90-004375
Bioaccumulation
90-006205
Bioassay Techniques
90-002586
90-002591
90-006127
Biological Monitoring
90-002530
90-002586
90-002591
Biosorption
90-002643
Biotransformation
90-000923
Chemoreception
90-005589
Chlorinated Benzenes
90-004398
Chlorine
90-002653
Chloropyrifos
90-004320
Cyclohexane
90-004375
Diagnostic Techniques
90-004167
DNA
90-001826
Dyes
90-006115
Early Development
90-004398
Economic Value
90-006638
Egg Trading
90-002126
Exotic Species/South Dakota
90-006638

...CONTINUED...
Pimephales promelas
Foods/Feeding
90-002658
90-004320
90-005589
Gills
90-004375
Heavy Metals
90-002658
90-006205
Hexachlorobenzene
90-002643
Industrial Wastes
90-002591
Infectious Hematopoietic Necrosis
90-004167
Insecticides
90-004320
Interspecies Relationships
90-002104
Ketones
90-002642
Lead
90-002658
Liver
90-000923
Management/Research--Ponds
90-006638
Management/Research--Rivers and Streams
90-002565
90-002653
Molybdenum
90-002588
Morphology
90-006127
Mucus
90-004375
Musculature
90-001826
Niche Overlaps
90-002104
Olfaction
90-005589
Parasites/Diseases
90-004167
Parental Behavior
90-002126
Parental Transfer
90-006205
Phthalate Esters
90-004328
Plasticizers
90-004328
Pollution
90-002529
90-002565
90-002658
Pollution Avoidance
90-002100
Polychlorinated Biphenyls
90-002530
Reproduction
90-000898
Reptile Predation
90-003942
Reservoir Release Effects
90-002100
RNA
90-001826

...CONTINUED...
Pimephales promelas
Selenium
90-000898
90-006205
Sewage Effluents
90-002591
Stress
90-006127
Temperature
90-000897
TFM
90-003170
Thermal Pollution
90-002100
Toluene
90-004375
Toxicity Testing
90-000897
90-002529
90-002591
90-002617
90-002642
90-002653
90-004398
90-006098
Toxins
90-000923
90-004398
Viral Diseases
90-004167
Water Quality
90-002653
Wetlands
90-006638
Xylenes
90-004375
Pimephales vigilax
Coexistence
90-004659
Habitat Selection
90-006760
Management/Research--Rivers and Streams
90-004659
90-006760
Microhabitat
90-006760
Population Studies
90-004659
Plagioscion surinamensis
Commercial Fishing
90-006660
Management/Research--Reservoirs
90-006660
Tropics
90-006660
Platichthys flesus
Acanthocephala
90-000795
Angiotensin
90-003515
Behavior
90-004356
Bioaccumulation
90-004356
90-006156
Biological Monitoring
90-000840
Blood Pressure
90-003515
Cadmium
90-006188

...CONTINUED...
Platichthys flesus
Carcinogens
90-004356
Commercial Fishing
90-006672
Condition Factors
90-004093
Cortisol
90-000221
90-003515
Dibenzofuran
90-006156
Dioxin
90-006156
Disease Susceptibility
90-004093
Drinking Behavior
90-003409
Early Development
90-000530
Electrophoresis
90-005182
Electrophysiology
90-003457
Endocrinology
90-000221
90-003515
Enzymes
90-005182
Fatty Acids
90-003561
Heart
90-003457
Heavy Metals
90-006188
Hepatic Lesions
90-004356
Hydrocarbons
90-000911
Immunoglobulins
90-003386
Ion Transport
90-001931
90-003457
Isozymes
90-003625
Larval Behavior
90-000530
Lipid Composition
90-003561
Magnesium
90-006156
Management/Research--Estuaries
90-004356
90-006672
Nervous System
90-000221
90-005177
Oil Pollution
90-000911
Osmoregulation
90-001931
90-003409
90-005177
Parasites/Diseases
90-000795
90-004093
90-004251
pH Regulation
90-001931
Pollution
90-004251

...CONTINUED...
Platichthys flesus
Pollution
90-004356
Pomphorhynchus laevis
90-000795
Population Genetics
90-003625
Reproductive System
90-005182
Salinity
90-000221
90-001931
90-003409
Seagrass Beds
90-006672
Steroids
90-000221
Swimming Performance
90-000530
Temperature
90-003561
Trophic Relationships
90-004093
Vitellogenin
90-006188
Platichthys stellatus
Foods/Feeding
90-002111
Platycephalus indicus
Age/Growth
90-004722
90-004779
Commercial Fishing
90-004722
Discarded Bycatch
90-004779
Length-Weight Relationships
90-004722
Life History/General
90-004722
Management/Research--Marine
90-004722
90-004779
Stock Assessment
90-004722
Platypoecilus
Gonadotropin
90-001966
Pituitary Gland
90-001799
Serotonin
90-001799
Plecoglossus altivelis
Bacterial Diseases
90-005949
Bacterial Flora
90-005328
90-005415
Brood Stock
90-004999
Culture/Propagation
90-003712
90-004999
90-005328
Digestive System
90-005328
90-005415
Enzymes
90-005416
Eyes
90-003612

...CONTINUED...
Plecoglossus altivelis
Feeding Experiments
90-005328
Feeds
90-005328
Gynogenesis
90-003712
Hatchery/Wild Populations
90-004999
Histology
90-003612
Inbreeding
90-003712
Kidneys
90-003612
Lipid Metabolism
90-005328
Liver
90-005416
Management/Research--Estuaries
90-006675
Marking/Tagging
90-006392
90-006393
Maturation
90-005416
Movements
90-006392
90-006393
Musculature
90-003569
90-005416
Nitrogen
90-003569
Nursery Areas
90-006675
Parasites/Diseases
90-005949
Polyploidy
90-003612
Salinity
90-005415
Selective Breeding
90-004999
Stocking/Introductions
90-006392
90-006393
Survival
90-006392
Swimming Performance
90-006393
Triploid Fish
90-003612
Variation Studies
90-003712
Vibrio anguillarum
90-005949
Plecostomus commersoni
Herbicides
90-004395
Paraquat
90-004395
Plectorhynchus pictus
Life History/General
90-005591
Population Studies
90-005591
Plectroglyphidodon lacrymatus
Age/Growth
90-000356
Carbon
90-000356
...CONTINUED...
Plectroglyphidodon lacrymatus
Food Conversion Efficiency
90-000356
Foods/Feeding
90-000356
Nitrogen
90-000356
Trophic Relationships
90-000356
Plectropomus leopardus
Diagnostic Techniques
90-002450
Parasites/Diseases
90-002450
Pearsonellum corventum
90-002450
Trematodes
90-002450
Plesiopidae
Olfaction
90-003238
Osteology
90-003238
Taxonomy
90-003238
Pleurogrammus antarcticus
Meristic Studies
90-000264
Morphometry
90-000264
Variation Studies
90-000264
Zoogeography
90-000264
Pleurogrammus monopterygius
Coastal Habitat
90-004820
Habitat Selection
90-004820
Reproduction
90-004820
Pleuronectes flesus
Bioaccumulation
90-006064
Cesium
90-006064
Pollution
90-006064
Radiation
90-006064
Strontium
90-006064
Pleuronectes platessa
Abundance/Factors of
90-004710
90-005680
Age/Growth
90-000660
90-002289
90-003983
90-004004
90-005800
90-005820
Algal Blooms
90-004710
Ascorbic Acid
90-005363
Bays
90-003858
Bioenergetics
90-003772

...CONTINUED...
Pleuronectes platessa
Cadmium
90-002598
90-005644
Carbamates
90-006136
Chromosomes
90-005450
Copper
90-006150
Culture/Propagation
90-000088
90-005800
Cytochrome P450
90-002598
90-006162
Detoxification
90-002598
Diets
90-000088
Distribution/Seasonal
90-002181
Distribution/Vertical
90-000377
90-002181
DNA
90-002289
Drilling Fluids
90-006162
Early Development
90-000660
90-005644
90-005800
Egg Composition
90-003318
Electrophoresis
90-000433
Endocrinology
90-001796
90-003318
90-003542
Enzymes
90-000433
90-006136
Epidermis
90-000875
Excretory System
90-005248
Feeds
90-000088
Heavy Metals
90-002598
90-005644
90-006150
Hematology
90-000377
Histology
90-000875
Induced Maturation
90-001796
90-003542
Larvae
90-000088
90-005800
Larval Drift
90-002226
Life History/General
90-005644
Light
90-000875
Liver
90-006138

...CONTINUED...
Pleuronectes platessa
Management/Research--Estuaries
90-003858
90-004698
90-004710
Management/Research--Marine
90-005680
Mark/Recapture
90-000701
Marking/Tagging
90-000701
Maturation
90-000605
90-001798
90-003318
Metamorphosis
90-005800
Migration
90-003772
Mortality Rates
90-000660
90-000701
Nursery Areas
90-003858
90-004698
90-004710
Nutrition
90-005363
Oil Pollution
90-006162
Organophosphates
90-006136
Otolith Preparation
90-004004
Otoliths
90-000660
90-002289
90-005820
Overwintering
90-004698
Parasites/Diseases
90-004251
Pesticides
90-006136
Pigments
90-000220
Pollution
90-004251
Polymorphism
90-000433
Pressure Effects
90-000377
Radiation
90-000875
Recruitment
90-003858
90-005680
RNA
90-002289
Season
90-006138
Sediment Bioassays
90-006162
Sexual Dimorphism
90-006138
Spawning
90-002181
Spawning Substrates
90-005800
Steroids
90-001796

...CONTINUED...
Pleuronectes platessa
Steroids
90-001798
90-003318
90-003542
Substrate Composition
90-005800
Swimming Performance
90-003772
Tank Culture
90-000088
Tides
90-003772
Urinary Bladder
90-005248
Variation Studies
90-000220
90-000433
Vision
90-000220
Vitamins
90-005363
Xenobiotics
90-002598
90-006138
Year Class Strength
90-003858
Zinc
90-006150
Pleuronectes quadrituberculatus
Foods/Feeding
90-005781
Interspecies Relationships
90-005781
Management/Research--Marine
90-006730
Maximum Sustainable Yield
90-006730
Recruitment
90-006730
Yield
90-006730
Yield-per-Recruit
90-006730
Pleuronectes stellatus
Predator/Prey Relationships
90-002863
Pleuronectidae
Economics
90-004491
Groundfish
90-004491
Law of the Sea
90-004491
Marketing
90-004491
Pleuronectiformes
Biosorption
90-006475
Condition Factors
90-001900
Copper
90-006475
Coral Reefs
90-005765
Digestive System
90-001900
Early Development
90-005765
Foods/Feeding
90-005765

...CONTINUED...
Pleuronectiformes
Gear Efficiency
90-004533
Heart
90-001900
Heavy Metals
90-006475
Ion Transport
90-001900
Management/Research--Marine
90-000970
90-005765
Mercury
90-006475
Stress
90-001900
Toxicology
90-006475
Zinc
90-006475
Plotosus anguillaris
Biological Monitoring
90-006054
Coccomyxa
90-005958
Heavy Metals
90-006054
Mutagens
90-004351
Neoplasms
90-004351
Parasites/Diseases
90-004351
90-005958
Protozoan Diseases
90-005958
Septemcapsula
90-005958
Pneumatophorus japonicus
Fish Behavior
90-000500
Harvest
90-006403
Light
90-000500
Lights
90-000500
Phototropism
90-000500
Pneumatophorus japonicus japonicus
ATP
90-000415
Lactate
90-000415
Rigor Mortis
90-000415
Poecilia
Digestive System
90-003207
Histology
90-003207
Poecilia gillii
Abundance/Factors of
90-006658
Management/Research--Reservoirs
90-006658
Population Studies
90-006658
Species Diversity
90-006658
Poecilia latipinna
Age/Growth
90-000476

...CONTINUED...
Poecilia latipinna
Age/Growth
90-005496
90-005497
Culture/Propagation
90-004972
Islands
90-004687
Management/Research--Ponds
90-004687
Maturation
90-000476
90-005496
90-005497
Morphology
90-000476
Parental Behavior
90-005494
Population Studies
90-004687
Variation Studies
90-005496
90-005497
Poecilia mexicana
Culture/Propagation
90-004929
Fertilization/Soil and Water
90-004929
Grazing
90-002707
Management/Research--Rivers and Streams
90-002707
Manure
90-004929
Polyculture
90-004929
Poecilia reticulata
Age/Growth
90-003696
Aggressive Behavior
90-003697
Aquariums
90-003138
Behavior
90-003697
90-004552
Benzo(a)pyrene
90-004343
Bioaccumulation
90-002536
90-004384
Biosorption
90-004384
Calcium
90-001972
Camallanus cotti
90-005551
Carcinogens
90-004343
Carotenoids
90-002105
Chlorinated Benzenes
90-004384
Chromium
90-004350
Coloration
90-002105
90-003645
90-003696
90-005170
...CONTINUED...
Poecilia reticulata
Competition
90-003697
Copper
90-006150
Cortisol
90-003583
Courtship
90-003771
Crypsis
90-005170
Culture/Propagation
90-003138
90-003679
90-005300
Defensive Mechanisms
90-005170
Detergents
90-000915
Diets
90-005300
Early Development
90-002000
Egg Composition
90-003583
Endocrinology
90-003583
Estradiol
90-003583
Fertilization
90-003583
Foods/Feeding
90-000622
90-002105
Fright Behavior
90-003771
Genetic Strains
90-003138
90-003679
90-003696
90-003697
Genetics
90-003697
Hatching
90-003583
Heavy Metals
90-006150
Hexachlorobenzene
90-002536
Histology
90-002000
Isozymes
90-003679
Mate Selection
90-002105
90-005540
90-005551
Nematodes
90-005551
Nickel
90-004350
Nutrition
90-001972
Organotins
90-002659
Parasites/Diseases
90-005551
Phosphorus
90-001972
Pigments
90-000220

...CONTINUED...
Poecilia reticulata
Pigments
90-002105
Polychlorinated Biphenyls
90-004384
Polycyclic Aromatic Hydrocarbons
90-004343
Predator/Prey Relationships
90-003771
90-005170
Proteins
90-005300
Reproduction
90-005300
Sexual Dimorphism
90-005170
Spawning
90-002105
90-005551
Steroids
90-003583
Suspended Solids
90-002536
Swimbladder
90-002000
Thermal Tolerance
90-005452
Toxicology
90-004552
Tributyltin
90-002659
Trichlorobenzene
90-002536
Variation Studies
90-000220
90-005170
Vision
90-000220
Zinc
90-006150
Poecilia teresae
Morphology
90-004070
New Species
90-004070
Poeciliidae
Aquariums
90-003137
Culture/Propagation
90-003137
Evolution
90-000600
Feeding Experiments
90-003137
Parental Behavior
90-000600
Reproduction
90-000600
Reproductive System
90-003209
Taxonomy
90-003209
Poeciliopsis lucida
Sex Determination
90-003445
Pogonias cromis
Age/Growth
90-000553
90-002284
90-005792
Bays
90-005629

...CONTINUED...
Pogonias cromis
Early Development
90-005629
Egg Drift
90-004703
Harvest
90-004480
Larval Drift
90-004703
Life History/General
90-000553
Lipid Composition
90-002970
Management/Research--Marine
90-004480
90-005629
Nursery Areas
90-004703
90-005629
Otoliths
90-005792
Reproduction
90-000553
Storage Effects
90-002970
Pollachius pollachius
Acoustical Methods
90-003505
Pigments
90-000220
Season
90-003505
Swimbladder
90-003505
Variation Studies
90-000220
Vision
90-000220
Pollachius virens
Abundance/Factors of
90-005859
Age/Growth
90-000663
Biomass
90-004813
Bird Predation
90-005859
Cage Culture
90-004905
Caligus elongatus
90-005995
Commercial Fishing
90-000663
90-001050
Culture/Propagation
90-004905
90-005995
Distribution/Geographical
90-004797
Exploitation Rates
90-001050
Hatchery Releases
90-004905
Hatchery/Wild Populations
90-004905
Lepeophtheirus salmonis
90-005995
Life History/General
90-001050
Management/Research--Marine
90-000663

...CONTINUED...
Pollachius virens
Management/Research--Marine
90-004813
Mortality Rates
90-004591
Movements
90-000663
Parasites/Diseases
90-005995
Parasitic Copepods
90-005995
Recruitment
90-001050
90-005859
Pollimyrus subundulatus
Acoustico-Lateralis System
90-002092
Communication
90-002092
Courtship
90-002092
Electrical Communication
90-002092
Polyacanthus cupanus
Cadmium
90-002639
Detoxification
90-002639
Heavy Metals
90-002639
Selenium
90-002639
Polydactylus octonemus
Fish Kills
90-004307
Life History/General
90-005601
Red Tides
90-004307
Salinity
90-004307
Toxic Algae
90-004307
Polyipnus
Fish Lists/Keys
90-002347
Polyipnus fraseri
Morphology
90-005133
Taxonomy
90-005133
Polyipnus paxtoni
New Species
90-002347
Polymixia yuri
Morphology
90-000179
Morphometry
90-000179
Taxonomy
90-000179
Polyodon spathula
Age/Growth
90-002712
Catch Per Unit Effort
90-002712
Commercial Fishing
90-002712
Culture/Propagation
90-006388
Exploitation Rates
90-002712
...CONTINUED...
Polyodon spathula
Gills
90-001790
Length-Weight Relationships
90-002712
90-004489
Management/Research--Lakes
90-002712
Management/Research--Rivers and Streams
90-004489
Metabolism
90-001790
Population Studies
90-004489
Regulations/Size Limits
90-004489
Respiration
90-001790
Supplemental Stocking
90-006388
Swimming Performance
90-001790
Polypterus senegalus
Evolution
90-000203
Fins
90-001736
Scales
90-000203
Pomacentridae
Reef Fish Communities
90-005710
Reproduction
90-005710
Spawning Substrates
90-005710
Pomacentrus fasciolatus
Aggressive Behavior
90-003752
Interspecies Relationships
90-003752
Modeling
90-003752
Species Recognition
90-003752
Territorial Behavior
90-003752
Pomacentrus leucostictus
Interspecies Relationships
90-005535
Recruitment
90-005535
Spawning
90-005535
Survival
90-005535
Territorial Behavior
90-005535
Pomacentrus molluccensis
Age/Growth
90-005798
Otoliths
90-005798
Reef Fish Communities
90-005798
Tropics
90-005798
Pomacentrus rectifraenum
Modeling
90-002190

...CONTINUED...
Pomacentrus rectifraenum
Parental Behavior
90-002190
Population Genetics
90-002190
Population Studies
90-002190
Sex Ratios
90-002190
Pomadasys
Fish Preservation
90-004833
Storage Effects
90-004833
Pomadasys argyreus
Biosorption
90-002462
Public Health Problems
90-002462
Trace Metals
90-002462
Pomadasys jubelini
Cytology
90-005242
Endocrinology
90-005242
Gonadotropin
90-005242
Pituitary Gland
90-005242
Pomadasys olivaceum
Eggs
90-000208
Embryology
90-000208
Nursery Areas
90-006682
Pomatomus saltator
Management/Research--Marine
90-001367
Subsistence Fishing
90-001367
Pomatomus saltatrix
Age/Growth
90-005697
Bacterial Diseases
90-004103
Coexistence
90-004755
Distribution/Seasonal
90-004755
Foods/Feeding
90-003937
Maturation
90-005697
Parasites/Diseases
90-004103
Spawning
90-005697
Streptococcus
90-004103
Pomatoschistus microps
Pigments
90-000220
Variation Studies
90-000220
Vision
90-000220
Pomatoschistus minutus
Age/Growth
90-003802
...CONTINUED...
Pomatoschistus minutus
Catecholamines
90-003544
Coloration
90-003544
Competition
90-000510
Copper
90-006150
Eyes
90-003544
Fright Behavior
90-003769
Heavy Metals
90-006150
Intraspecies Relationships
90-000510
Lagoons
90-003802
Life History/General
90-003802
Light
90-003544
Management/Research--Marine
90-003802
Mate Selection
90-000510
Nests/Nesting
90-000510
Nursery Areas
90-003802
Predator/Prey Relationships
90-003769
Size Hierarchies
90-000510
Spawning
90-000510
90-003769
Zinc
90-006150
Pomoxis
Competition
90-006647
Habitat Selection
90-006579
Ichthyoplankton
90-002824
Management/Research--Reservoirs
90-006647
Management/Research--Rivers and Streams
90-004684
90-006579
Morphology
90-000707
Nursery Areas
90-002824
Osteology
90-000707
Population Studies
90-006579
Recreational Benefits
90-004684
Sportfishing
90-004684
Taxonomy
90-000707
Trophic Relationships
90-006647
Pomoxis annularis
Abundance/Factors of
90-006640

...CONTINUED...
Pomoxis annularis
Competition
90-006377
90-006640
Electrofishing
90-006396
Foods/Feeding
90-003963
Gear Efficiency
90-006396
Management/Research--General
90-006378
Management/Research--Ponds
90-006640
Management/Research--Reservoirs
90-006375
90-006377
Nets/Gill Nets
90-006396
Nets/Trap Nets
90-006396
Predator/Prey Relationships
90-003963
Sampling
90-006396
Season
90-006396
Sportfishing
90-006378
Triploid Fish
90-005430
Trophic Relationships
90-006377
90-006640
Pomoxis nigromaculatus
Abundance/Factors of
90-002856
90-006531
Activity Patterns
90-000509
Age/Growth
90-005796
Biological Monitoring
90-004262
Biosorption
90-004262
Commercial Fishing
90-006531
Exploitation Rates
90-006531
Fishing Tournaments
90-002843
Gear Efficiency
90-006416
Habitat Alterations
90-002856
Heavy Metals
90-004262
Ichthyoplankton
90-001339
Management/Research--General
90-006378
Management/Research--Lakes
90-002843
90-002856
90-006531
Management/Research--Reservoirs
90-001339
Nets/Trap Nets
90-006416
Pollution Detection
90-004262
...CONTINUED...
Pomoxis nigromaculatus
Population Studies
90-002856
90-006531
Regulations/General
90-006531
Sampling
90-006416
Sportfishing
90-002843
90-006378
Trophic Relationships
90-002856
Popondichthys furcata
Aquariums
90-000604
Culture/Propagation
90-000604
Reproduction
90-000604
Porichthys myriaster
Adrenergic System
90-003531
90-005357
Bioluminescence
90-003531
90-005309
90-005357
Metabolism
90-003531
Porichthys notatus
Adrenergic System
90-005357
Bioluminescence
90-001920
90-005309
90-005357
Communication
90-003730
Condition Factors
90-005704
Egg Size
90-005704
Fecundity
90-005704
Hormones
90-001780
Maturation
90-001780
Reproduction
90-001780
Sound Production
90-003730
Spawning
90-003730
Vision
90-001920
Poromitra crassiceps
Osteology
90-003628
Predator/Prey Relationships
90-003628
Species Identification
90-003628
Poromitra gibbsi
Distribution/Geographical
90-005888
Morphology
90-005888
New Species
90-005888

Premnas biaculeatus
Aquariums
90-001600
Culture/Propagation
90-003150
Priacanthus arenatus
Fatty Acids
90-000354
Osteology
90-000354
Pressure Effects
90-000354
Priacanthus macracanthus
Dactylogyrus
90-002454
Parasites/Diseases
90-002454
Trematodes
90-002454
Priapella compressa
Aquariums
90-005647
Culture/Propagation
90-005647
Life History/General
90-005647
Priapella intermedia
Aquariums
90-005647
Culture/Propagation
90-005647
Life History/General
90-005647
Priolepis
Gonads
90-005125
Hermaphroditism
90-005125
Variation Studies
90-005125
Priolepis squamogena
New Species
90-005896
Zoogeography
90-005896
Prionace
Electrophoresis
90-002059
Taxonomy
90-002059
Prionace glauca
Abundance/Factors of
90-005681
Bioaccumulation
90-006234
Biosorption
90-004400
Cadmium
90-004400
Cardiovascular System
90-001892
Distribution/Seasonal
90-004741
Exploitation Rates
90-004741
Food Supply
90-005681
Gyrodinium aureolum
90-006234
Harvest
90-006234

...CONTINUED...
Prionace glauca
Heart
90-001892
Heavy Metals
90-004400
Management/Research--Marine
90-004741
90-005681
90-006234
Manganese
90-004400
Parasites/Diseases
90-006234
Population Studies
90-005681
Protozoan Diseases
90-006234
Sportfishing
90-005681
Temperature
90-005681
Toxic Algae
90-006234
Zinc
90-004400
Pristella maxillaris
Aquariums
90-000602
Culture/Propagation
90-000602
Reproduction
90-000602
Pristipomoides
Condition Factors
90-000195
Length-Weight Relationships
90-000195
Pristipomoides filamentosus
Distribution/Vertical
90-003941
Foods/Feeding
90-003941
Stocking/Introductions
90-006480
Trophic Relationships
90-003941
Yield
90-006480
Yield-per-Recruit
90-006480
Pristipomoides sieboldii
Distribution/Vertical
90-003941
Foods/Feeding
90-003941
Trophic Relationships
90-003941
Probarbus jullieni
Habitat Protection
90-005642
Life History/General
90-005642
Management/Research--Rivers and Streams
90-005642
Procetichthys
New Genus
90-002357
Prochilodus insignis
Abundance/Factors of
90-006612

...CONTINUED...
Prochilodus insignis
Exploitation Rates
90-006612
Life History/General
90-006612
Management/Research--Rivers and Streams
90-006612
Prochilodus lineatus
Anesthetics
90-005338
Benzocaine
90-005338
Prochilodus nigricans
Social Behavior
90-003773
Prochilodus platensis
Abundance/Factors of
90-000535
Life History/General
90-000535
Prochilodus taeniurus
Abundance/Factors of
90-006612
Exploitation Rates
90-006612
Life History/General
90-006612
Management/Research--Rivers and Streams
90-006612
Pronotogrammus multifasciatus
Taxonomy
90-000702
Prophagorus cataractus
Electrophoresis
90-000442
90-000463
Genetic Strains
90-000442
90-000463
Isozymes
90-000463
Prosopium cylindraceum
Enzymes
90-003682
Length-Weight Relationships
90-001164
Management/Research--Lakes
90-001164
Population Studies
90-001164
Sportfishing
90-001164
Variation Studies
90-003682
Proterorhinus marmoratus
Distribution/Factors of
90-000677
Distribution/Geographical
90-000677
Morphology
90-004068
Protopterus annectens
Aestivation
90-003446
Endocrinology
90-003446
Hormones
90-003446
Nervous System
90-003446
Prototroctes maraena
Competition
90-006580
Population Studies
90-006580
Prototroctes oxyrhynchus
Endangered/Threatened Species
90-002990
Extinction
90-002990
Psammogobius knysnaensis
Ichthyoplankton
90-002904
Management/Research--Estuaries
90-002904
Nursery Areas
90-002904
Psectrogaster
Fish Lists/Keys
90-004085
Osteology
90-004085
Psenes whiteleggii
Oxygen
90-000410
Respiration
90-000410
Psenopsis anomala
Histology
90-002215
Maturation
90-002215
Reproduction
90-002215
Reproductive Cycle
90-002215
Psetta maxima
Age/Growth
90-003983
Bothriocephalus
90-006038
Cestodes
90-006038
Isozymes
90-003625
Migration
90-005506
Parasites/Diseases
90-006038
Population Genetics
90-003625
Psettina multisquamea
Morphology
90-000710
New Species
90-000710
Pseudobagrus brevicorpus
Osteology
90-001701
Taxonomy
90-001701
Pseudobagrus fulvidraco
Osteology
90-001701
Taxonomy
90-001701
Pseudocaranx dentex
Culture/Propagation
90-001586
Diets
90-001586

...CONTINUED...
Pseudocaranx dentex
Fatty Acids
90-001586
Feeding Experiments
90-001586
Nutrition
90-001586
Pseudochaenichthys georgianus
Foods/Feeding
90-000637
Pseudochromidae
Olfaction
90-003238
Osteology
90-003238
Taxonomy
90-003238
Pseudochromis fridmani
Aquariums
90-003141
Culture/Propagation
90-003141
Life History/General
90-003141
Pseudochromis fuscus
Eggs
90-003239
Pseudochromis marshallensis
Eggs
90-003239
Pseudochromis porphyreus
Eggs
90-003239
Pseudochromis tapeinosoma
Eggs
90-003239
Pseudocrenilabrus
Morphology
90-000172
Species Identification
90-000172
Taxonomy
90-000172
Variation Studies
90-000172
Pseudocrenilabrus multicolor
Activity Patterns
90-000498
Territorial Behavior
90-000498
Pseudocrenilabrus philander
Age/Growth
90-002160
Courtship
90-005513
Management/Research--Reservoirs
90-002160
Population Studies
90-002160
Spawning
90-005513
Territorial Behavior
90-005513
Tropics
90-002160
Variation Studies
90-005513
Pseudocurimata
Distribution/Geographical
90-000719
Morphology
90-000719

...CONTINUED...
Pseudocurimata
Taxonomy
90-000719
Pseudocurimata boehlkei
New Species
90-000719
Taxonomy
90-000719
Pseudocurimata lineopunctata
Taxonomy
90-000719
Pseudocurimata patiae
Taxonomy
90-000719
Pseudocurimata peruana
Taxonomy
90-000719
Pseudocurimata troschelii
Taxonomy
90-000719
Pseudogobio esocinus
Isozymes
90-005468
Pseudomancopsetta andriashevi
Distribution/Geographical
90-004021
Pseudopentaceros wheeleri
Age/Growth
90-004008
Otoliths
90-004008
Stock Assessment
90-004008
Pseudophycis bachus
Benthos
90-001640
Pseudoplesiops knighti
Eggs
90-003239
Pseudoplesiops rosae
Eggs
90-003239
Pseudopleuronectes americanus
Age/Growth
90-004997
Amino Acids
90-006108
Arsenic
90-004371
90-006171
Biochemical Composition
90-004997
Cadmium
90-000870
90-003296
90-006108
Carbon Tetrachloride
90-004354
Carcinogens
90-006154
Cloning
90-006118
Commercial Fishing
90-000543
Culture/Propagation
90-004997
Cytochrome P450
90-004354
Digestive System
90-003326
90-004371

...CONTINUED...
Pseudopleuronectes americanus
Digestive System
90-005200
90-006171
DNA
90-006118
Egg Composition
90-004997
Endocrinology
90-004371
Epidermis
90-000165
Excretory System
90-003593
Foods/Feeding
90-003949
Glucose
90-003306
90-005185
Gonadotropin
90-001859
Gonads
90-001859
Hatching
90-004997
Heavy Metals
90-000870
90-004371
90-006108
90-006118
90-006171
Hematology
90-003306
Hormones
90-005237
Ion Transport
90-001792
90-003296
90-003326
90-003593
90-006108
Kidneys
90-000870
90-003296
90-006108
Larvae
90-004997
Life History/General
90-000543
Maturation
90-000165
90-001859
Melanophores
90-001792
Mercury
90-004371
90-006171
Metabolism
90-005185
90-006118
Metallothionein
90-006118
Nervous System
90-001792
Nursery Areas
90-004697
Ormethoprim
90-003439
Osmoregulation
90-003296
90-003326

...CONTINUED...
Pseudopleuronectes americanus
Osmoregulation
90-003593
90-005200
90-005237
Peptides
90-005237
pH
90-005200
Polycyclic Aromatic Hydrocarbons
90-006154
Potassium
90-001792
90-003593
Predator/Prey Relationships
90-003949
Sea Urchins
90-003949
Sodium
90-001792
90-003326
90-006108
Sodium Chloride
90-003593
Temperature
90-004997
Variation Studies
90-000165
Xenobiotics
90-006154
Pseudorasbora parva
Age/Growth
90-003592
Bioenergetics
90-003592
Early Development
90-003592
Gonosomatic Index
90-003283
Reproductive Cycle
90-003283
90-003468
Respiration
90-003592
Pseudorhombus megalops
Taxonomy
90-000713
Pseudotolithus typus
Age/Growth
90-002808
Population Studies
90-002808
von Bertalanffy Growth Function
90-002808
Pseudotropheus aurora
Digestive System
90-003255
Exotic Species/Africa: Lake
Malawi
90-003754
Foods/Feeding
90-003970
Territorial Behavior
90-003754
Pseudotropheus elongatus
Digestive System
90-003255
Foods/Feeding
90-003970
Pseudotropheus gracilior
Digestive System
90-003255

...CONTINUED...
Pseudotropheus gracilior
Foods/Feeding
90-003970
Pseudotropheus lombardoi
Hermaphroditism
90-005718
Parental Behavior
90-005718
Sex Reversal
90-005718
Territorial Behavior
90-005718
Pseudotropheus microstoma
Digestive System
90-003255
Pseudotropheus saulosi
Life History/General
90-004072
New Species
90-004072
Pseudotropheus tropheops
Aquariums
90-005074
Culture/Propagation
90-005074
Digestive System
90-003255
Foods/Feeding
90-003970
Parental Behavior
90-005074
Reproduction
90-005074
Pseudotropheus zebra
Courtship
90-005550
Digestive System
90-003255
Evolution
90-005550
Foods/Feeding
90-003970
Mate Selection
90-005550
Speciation
90-005550
Species Recognition
90-005550
Variation Studies
90-005550
Pseudupeneus cinnabaricus
Age/Growth
90-000659
Length-Weight Relationships
90-000659
Meristic Studies
90-000659
Morphometry
90-000659
Psilodraco breviceps
Morphology
90-004063
Osteology
90-004063
Taxonomy
90-004063
Psychrolutes paradoxus
Lateral Line System
90-003268
Pteronotropis
Nervous System
90-001863
...CONTINUED...
Pteronotropis
Turbidity
90-001863
Vision
90-001863
Pterophyllum dumerilii
Aquariums
90-003152
Culture/Propagation
90-003152
Pterophyllum scalare
Aquariums
90-000608
Bacterial Flora
90-001962
Culture/Propagation
90-000608
Heterosporis finki
90-002418
Parasites/Diseases
90-002418
Protozoan Diseases
90-002418
Reproduction
90-000608
Ptychocheilus grandis
Age/Growth
90-005594
Extinction
90-006784
Foods/Feeding
90-005594
Habitat Selection
90-006565
Life History/General
90-005594
Meristic Studies
90-001659
Paleontology
90-006784
Temperature Selection
90-006565
Zoogeography
90-001659
Ptychocheilus lucius
Agonistic Behavior
90-002104
Interspecies Relationships
90-002104
Meristic Studies
90-001659
Niche Overlaps
90-002104
Zoogeography
90-001659
Ptychocheilus oregonensis
Heated Effluents
90-006078
Management/Research--Reservoirs
90-005675
Meristic Studies
90-001659
Population Studies
90-005675
Power Plants
90-006078
Predator/Prey Relationships
90-005584
90-005675
Thermal Pollution
90-006078

...CONTINUED...
Ptychocheilus oregonensis
Zoogeography
90-001659
Ptychocheilus umpquae
Meristic Studies
90-001659
Zoogeography
90-001659
Pungitius pungitius
Argulus canadensis
90-006034
Bird Predation
90-002259
Ectoparasites
90-006034
Osteology
90-001751
Parasites/Diseases
90-006034
Parasitic Copepods
90-006034
Spines
90-001751
Variation Studies
90-001751
Puntius arulius
Foods/Feeding
90-002279
Puntius bimaculatus
Aquariums
90-003157
Culture/Propagation
90-003157
Spawning
90-003157
Puntius conchonius
Aldicarb
90-006139
Carbamates
90-006139
Endosulfan
90-006139
Insecticides
90-004336
Pesticides
90-006139
Phosphamidon
90-004336
Puntius filamentosus
Aquariums
90-003159
Courtship
90-003159
Culture/Propagation
90-003159
Spawning
90-003159
Puntius gonionotus
Culture/Propagation
90-004159
90-004926
90-004964
90-004985
Economics
90-004964
Induced Maturation
90-004926
90-004985
Parasites/Diseases
90-004159
Piscinoodinium pillulare
90-004159
...CONTINUED...
Puntius gonionotus
Polyculture
90-004964
Pond Culture
90-004159
Protozoan Diseases
90-004159
Reproduction
90-004926
Puntius sarana
Egg Composition
90-003298
Enzymes
90-003298
Puntius sophore
Alkyl Benzene Sulfonate
90-004366
Carbohydrate Metabolism
90-004366
Puntius stigma
Carbaryl
90-002620
Endosulfan
90-002620
Insecticides
90-002620
Malathion
90-002620
Puntius ticto
Endocrinology
90-006191
Gonads
90-006191
Heavy Metals
90-006191
Reproductive Cycle
90-006191
Season
90-006191
Puntius vittatus
Behavior
90-006087
Biocides
90-006087
Metabolism
90-006087
Respiration
90-006087
Pygocentrus notatus
Foods/Feeding
90-000657
90-005769
Pylodictis olivaris
Abundance/Factors of
90-005817
Age/Growth
90-005817
Competition
90-002874
Electrofishing
90-006417
Interspecies Relationships
90-002874
Laws/Law Enforcement
90-006417
Management/Research--Rivers and Streams
90-002220
90-002874
90-004684
90-005817

...CONTINUED...
Pylodictis olivaris
Misc. Gear
90-006417
Movements
90-002220
Population Studies
90-002220
90-002874
Predator/Prey Relationships
90-002874
Recreational Benefits
90-004684
Regulations/Fishing Gear
90-006417
Sportfishing
90-004684
Trophic Relationships
90-002874
Rachycentron canadum
Distribution/Geographical
90-002152
Life History/General
90-002152
Nematodes
90-006017
Parasites/Diseases
90-006017
Taxonomy
90-002152
Thynnascaris shyamasundarii
90-006017
Raja
Photoreception
90-000167
Vision
90-000167
Raja clavata
Acanthocotyle lobianchi
90-006043
Amino Acids
90-003500
Bays
90-003920
Distribution/Seasonal
90-003920
Electrophysiology
90-003500
Management/Research--Marine
90-003920
Migration
90-003920
Olfaction
90-003500
Parasites/Diseases
90-006043
Population Studies
90-003920
Trematodes
90-006043
Raja eglanteria
Aflatoxins
90-003301
Early Development
90-003331
Eyes
90-003331
Heart
90-003387
Liver
90-003301
Taurine
90-003387

...CONTINUED...
Raja eglanteria
Xenobiotics
90-003301
Raja erinacea
Amino Acids
90-000269
Bile
90-005272
Bioaccumulation
90-006159
Cadmium
90-003313
90-005188
90-006159
Cholesterol
90-003556
Cytology
90-003556
90-005312
Digestive System
90-005288
Early Development
90-005350
Egg Composition
90-003337
90-003443
Eggs
90-001891
90-003444
90-005208
90-005295
90-006159
Electric Fish
90-005188
Electric Organs
90-003313
Electrophysiology
90-005188
Electroreception
90-005329
90-005330
Embryology
90-001891
Endocrinology
90-000239
90-003370
90-003388
90-003552
90-005272
Enzymes
90-003337
90-003443
90-005208
90-005272
Excretory System
90-000180
Extracellular Fluid Volume
90-000269
Heavy Metals
90-006159
Hematology
90-001844
90-003493
90-005221
90-005312
Histology
90-000180
90-005350
90-005372
Hormones
90-003552

...CONTINUED...
Raja erinacea
Ion Transport
90-005221
90-005295
90-005372
Kidneys
90-000180
Lipid Composition
90-003556
Liver
90-003285
90-003552
90-003556
90-005359
90-005372
Magnesium
90-006159
Mercuric Chloride
90-003556
Mercury
90-005372
Metallothionein
90-005359
Mucous Cells
90-003433
Mucus
90-003433
Musculature
90-001653
Nervous System
90-001653
Ormethoprim
90-003439
Osmoregulation
90-000269
90-001844
90-001891
90-003285
90-003433
90-003493
90-005221
90-005295
90-005312
Oxygen
90-003552
90-005288
Parental Transfer
90-006159
Pigments
90-005272
Potassium
90-005221
Progesterone
90-001945
Proteins
90-005359
Rectal Gland
90-003388
Reproduction
90-000239
90-003370
Steroids
90-003370
Stress
90-003388
Taurine
90-001844
90-003285
90-003388
Teeth
90-005350

...CONTINUED...
Raja erinacea
Urea
90-000269
Vitellogenin
90-001945
Xenobiotics
90-005359
Raja fyllae
Foods/Feeding
90-003978
Raja montagui
Acanthocotyle lobianchi
90-006043
Parasites/Diseases
90-006043
Trematodes
90-006043
Raja naevus
Acanthocotyle lobianchi
90-006043
Endocrinology
90-000239
Parasites/Diseases
90-006043
Reproduction
90-000239
Trematodes
90-006043
Raja nasuta
Cardiovascular System
90-001669
Raja ocellata
Brain
90-003596
Enzymes
90-005304
Eyes
90-005304
Hematology
90-003391
Histology
90-005304
Hypercapnia
90-003391
90-003596
pH Regulation
90-003391
90-003596
Respiration
90-003391
90-003596
Vision
90-005304
Raja radiata
Foods/Feeding
90-003978
Rajidae
Benthos
90-001640
Rasbora daniconius
Carbofuran
90-006194
Endosulfan
90-006194
Parathion
90-006194
Pesticides
90-006194
Rasbora vaterifloris
Habitat Protection
90-004875

...CONTINUED...
Rasbora vaterifloris
Management/Research--Rivers and Streams
90-004875
Transplanted Species
90-004875
Rastrelliger kanagurta
Abundance/Factors of
90-002228
Distribution/Seasonal
90-002228
Maturation
90-002228
Monsoons
90-002228
Season
90-002228
Rastrineobola argentea
Commercial Fishing
90-004512
90-004616
Exploitation Rates
90-004616
Management/Research--Lakes
90-004616
90-004630
Population Studies
90-004512
Predator/Prey Relationships
90-004630
Reinhardtius hippoglossoides
Abundance/Factors of
90-003901
Distribution/Geographical
90-004035
90-004797
Distribution/Seasonal
90-003901
Distribution/Vertical
90-003901
Foods/Feeding
90-005786
Length-Weight Relationships
90-000562
Life History/General
90-000542
90-000562
Management/Research--Marine
90-000542
90-000562
Population Studies
90-000542
90-000562
Temperature
90-003901
Retropinna retropinna
Distribution/Vertical
90-003811
Foods/Feeding
90-000630
90-003811
Meristic Studies
90-000189
Photoperiodism
90-003811
Phytoplankton
90-003811
Predator/Prey Relationships
90-000630
Season
90-003811

...CONTINUED...
Retropinna retropinna
Toxic Algae
90-003811
Variation Studies
90-000189
Zooplankton
90-000630
90-003811
Retropinna semoni
Biological Monitoring
90-004296
Pulp Mill Effluents
90-004296
Rexea
Distribution/Geographical
90-002356
Morphology
90-002356
Taxonomy
90-002356
Rexea antefurcata
Distribution/Geographical
90-002356
Morphology
90-002356
New Species
90-002356
Taxonomy
90-002356
Rexea brevilineata
Distribution/Geographical
90-002356
Morphology
90-002356
New Species
90-002356
Taxonomy
90-002356
Rexea nakamurai
Distribution/Geographical
90-002356
Morphology
90-002356
New Species
90-002356
Taxonomy
90-002356
Rhabdosargus globiceps
Nursery Areas
90-006682
Rhabdosargus sarba
Biosorption
90-002462
Public Health Problems
90-002462
Trace Metals
90-002462
Rhacochilus vacca
Habitat Selection
90-006701
Kelp Forests
90-006701
Rhamdia
Foods/Feeding
90-000657
Rhamphocetichthys
New Genus
90-002357
Rhinichthys atratulus
Evolution
90-003652

...CONTINUED...
Rhinichthys atratulus
Habitat Selection
90-001251
Management/Research--Rivers and Streams
90-001251
Stream Classification
90-001251
Rhinichthys cataractae
Activity Patterns
90-000631
Bioenergetics
90-005521
Compensatory Swimming
90-005521
Diurnal Rhythm
90-005517
Flow Regimes
90-005521
Foods/Feeding
90-000631
90-005517
Habitat Evaluation
90-002774
HSI
90-002774
Management/Research--Rivers and Streams
90-002774
Modeling
90-002774
Photoperiodism
90-000631
Prairie Streams
90-002774
Rhythmicity
90-005517
Season
90-005521
Swimming Performance
90-005521
Rhinichthys osculus
Grazing
90-002707
Management/Research--Rivers and Streams
90-002707
Rhinichthys umatilla
Abundance/Factors of
90-005661
Distribution/Geographical
90-005661
Impoundment
90-005661
Population Studies
90-005661
Rhinobatos batillum
Merizocotyle icopae
90-002434
Parasites/Diseases
90-002434
Thaumatocotyle australensis
90-002434
Trematodes
90-002434
Rhinobatos halavia
Bioaccumulation
90-002475
Chromium
90-002475
Rhinoptera bonasus
Abundance/Factors of
90-005739
...CONTINUED...
Rhinoptera bonasus
Behavior
90-006364
Benedeniella posterocolpa
90-006044
Copper Sulfate
90-006044
Distribution/Seasonal
90-005739
Excretory System
90-000180
Histology
90-000180
Kidneys
90-000180
Marking/Tagging
90-006364
Parasites/Diseases
90-006044
Schooling Behavior
90-005739
Telemetry
90-006364
Treatment
90-006044
Trematodes
90-006044
Trichlorfon
90-006044
Rhizoprionodon
Electrophoresis
90-002059
Taxonomy
90-002059
Rhizoprionodon porosus
Cell Culture
90-003396
Hematology
90-003396
Immune Response
90-003396
Rhizoprionodon terraenovae
Embryology
90-001903
90-005264
Endocrinology
90-005264
Excretory System
90-000180
Histology
90-000180
Kidneys
90-000180
Proteins
90-001903
Reproduction
90-005264
Research Test Fish
90-005264
Rhodeus ocellatus ocellatus
Eggs
90-003246
Embryology
90-003246
Reproductive Cycle
90-003468
Rhombosolea retiaria
Benthos
90-001640
Richardsonius balteatus
Abundance/Factors of
90-003807

...CONTINUED...
Richardsonius balteatus
Coexistence
90-003807
Habitat Evaluation
90-003807
Habitat Selection
90-003807
Interspecies Relationships
90-002104
90-003807
Niche Overlaps
90-002104
Temperature
90-003807
Rineloricaria uracantha
Bird Predation
90-001283
Management/Research--Rivers and Streams
90-001283
Trophic Relationships
90-001283
Rivulus
Evolution
90-003838
Life History/General
90-003838
Predator/Prey Relationships
90-003838
Research Test Fish
90-006141
Toxicity Testing
90-006141
Variation Studies
90-003838
Zoogeography
90-003838
Rivulus cylindraceus
Fecundity
90-003878
Rivulus harti
Age/Growth
90-000561
Evolution
90-000561
Life History/General
90-000561
Season
90-000561
Rivulus marmoratus
Burrowing Behavior
90-005578
Interspecies Relationships
90-005578
Management/Research--Estuaries
90-005578
Marshes, Salt
90-005578
Microhabitat
90-005578
Osteology
90-001702
Sex Determination
90-003445
Rondeletia bicolar
Distribution/Geographical
90-002320
Rutilus lemmingii
Age/Growth
90-003840
Fecundity
90-003840

...CONTINUED...
Rutilus lemmingii
Management/Research--Rivers and Streams
90-006613
Reproduction
90-003840
Trophic Relationships
90-006613
Rutilus pigus virgo
Chromosomes
90-002068
Karyotypes
90-002068
Rutilus rutilus
Abundance/Factors of
90-004634
Acidification
90-004712
Activity Patterns
90-000286
90-000418
90-003945
Age/Growth
90-000418
90-001114
90-001181
90-002287
90-003592
90-003850
90-003959
90-003993
90-003995
90-003997
90-004203
90-005805
Agricultural Drainage
90-002463
Ammonia
90-003462
Anguillicola crassus
90-004202
Aquariums
90-003767
ATP
90-003434
Backwater Lakes
90-005526
Bacterial Flora
90-003008
Behavior
90-003767
Bioaccumulation
90-006235
Bioenergetics
90-000418
90-003424
90-003427
90-003592
Biosorption
90-004235
90-006178
Bird Predation
90-002338
Cadmium
90-004235
90-006178
Carbophos
90-002595
Cestodes
90-000801
90-004203

...CONTINUED...
Rutilus rutilus
Chromosomes
90-002068
90-005480
Cohort Analysis
90-003850
Commercial Fishing
90-004680
Compensatory Swimming
90-002122
Competition
90-000491
90-003733
90-003850
Corpuscle of Stannius
90-003462
Culture/Propagation
90-003767
Currents
90-002122
Cytology
90-003435
Digestive System
90-000305
Distribution/Vertical
90-000611
Early Development
90-000286
90-003424
90-003427
90-003592
90-003993
90-005805
Electrofishing
90-003737
Enzymes
90-000286
90-000305
90-003434
Eutrophication
90-002463
90-003997
90-005805
90-006068
90-006508
Fecundity
90-002287
Fish Control/Removal
90-005116
90-006530
90-006539
Floodplains
90-003737
90-003850
Flow Regimes
90-006567
Food Supply
90-003997
Foods/Feeding
90-000491
90-001114
90-002268
90-003427
90-003733
90-003945
90-003959
90-005526
Habitat Selection
90-000491
90-003737
90-004619

...CONTINUED...
Rutilus rutilus
Head
90-005138
Heavy Metals
90-004235
90-006178
90-006235
Histology
90-000298
90-001731
90-003434
Hybrid Identification
90-005492
Hybridization
90-000951
90-005492
Hydrazine
90-006190
Interspecies Relationships
90-000491
90-005526
Karyotypes
90-002068
Larval Behavior
90-000286
Lead
90-004235
Length Frequencies
90-003850
Life History/General
90-000491
90-001181
Ligula intestinalis
90-000801
90-004203
Management/Research--Lakes
90-001114
90-001181
90-002167
90-002463
90-002834
90-003199
90-003997
90-004619
90-005116
90-005805
90-006067
90-006068
90-006508
90-006518
90-006539
Management/Research--Ponds
90-002882
90-003733
Management/Research--Reservoirs
90-002287
90-006649
Management/Research--Rivers and Streams
90-000491
90-003737
90-003850
90-005526
Maturation
90-002287
Mercury
90-004235
90-006235
Metabolic Rates
90-003427
Microhabitat
90-003737

...CONTINUED...
Rutilus rutilus
Migration
90-003737
Musculature
90-000298
90-001731
90-003434
Nematodes
90-004202
Nervous System
90-003435
Nutrient Control
90-006067
90-006508
Nutrients
90-002834
Organophosphates
90-002595
Orientation/Homing
90-002122
Otoliths
90-003995
Oxytetracycline
90-003008
Parasites/Diseases
90-000801
90-004100
90-004202
90-004203
90-005993
Parasitic Copepods
90-005993
Phosphorus
90-002834
90-003199
Photoreception
90-003435
Phytoplankton
90-002834
Pollution
90-002463
Pollution Abatement
90-006067
Pollution Tolerance
90-002595
Population Studies
90-000607
90-000951
90-002167
90-002463
90-004594
90-004619
90-006518
Predator/Prey Relationships
90-005757
Rearing Density
90-003767
Recruitment
90-002167
90-004712
90-006567
Respiration
90-003424
90-003592
Sampling
90-003737
90-003850
Schooling Behavior
90-005526
Season
90-000305

...CONTINUED...
Rutilus rutilus
Season
90-001731
90-003767
90-004235
90-006508
Seismosensory System
90-005138
Sewage Effluents
90-006067
Stock Assessment
90-003850
Stocking/Introductions
90-002287
90-006508
90-006519
Stress
90-003462
Swimming Performance
90-002122
90-003424
90-003764
Temperature
90-002287
90-003997
Tracheliastes maculatus
90-005993
Trophic Relationships
90-002463
90-002834
90-002882
90-003733
90-003959
90-003997
90-005116
90-006067
90-006068
90-006508
90-006518
90-006519
90-006530
90-006539
90-006649
Turbidity
90-002882
Urban Fishing
90-001181
Variation Studies
90-001731
90-005138
Vision
90-003435
Water Quality
90-004634
90-006068
Wetlands
90-000951
Yield
90-004634
Rutilus rutilus aralensis
Morphometry
90-003265
Rutilus rutilus heckeli
Culture/Propagation
90-001457
Egg Collection
90-001457
Egg Quality
90-001457
Rutilus rutilus rutilus
Morphometry
90-003671

...CONTINUED...
Rutilus rutilus rutilus
Variation Studies
90-003671
Salarias fasciatus
Derogenes capricorniensis
90-002436
Parasites/Diseases
90-002436
Reef Fish Communities
90-006770
Sampling
90-006770
Trematodes
90-002436
Visual Estimation Methods
90-006770
Salminus maxillosus
Nematodes
90-006033
Parasites/Diseases
90-006033
Spirocamallanus paraguayensis
90-006033
Salmo
Culture/Propagation
90-002192
Habitat Alterations
90-006620
Habitat Improvement/General
90-006620
Induced Maturation
90-002192
Management/Research--Rivers and Streams
90-001458
90-006620
Reproduction
90-002192
Trout Stream Management
90-006620
Salmo irideus
Collagen
90-003486
Musculature
90-003486
Parthenogenesis
90-003486
Rigor Mortis
90-003486
Salmo ischchan
Electrophoresis
90-002065
90-003689
Genetic Diversity
90-003689
Genetic Strains
90-002070
90-004637
Life History/General
90-005724
Management/Research--Lakes
90-004637
90-005724
Morphometry
90-002070
90-004637
Population Genetics
90-002065
Variation Studies
90-002065
90-002070

...CONTINUED...
Salmo ischchan
Variation Studies
90-004637
Water Level Fluctuations
90-004637
Wild Trout Management
90-005724
Salmo marmoratus
Abundance/Factors of
90-002335
Competition
90-002335
Distribution/Geographical
90-001721
Evolution
90-001721
Morphometry
90-001721
Population Studies
90-002335
Salmo salar
Abnormalities
90-004192
90-005123
Abundance/Factors of
90-000834
90-004050
Acidification
90-000834
90-000852
90-001811
90-001825
90-002466
90-002652
90-004001
Acoustical Methods
90-004497
Activity Patterns
90-005530
Adrenaline
90-005207
Aeromonas salmonicida
90-000753
90-003399
90-004113
90-004134
Age/Growth
90-000034
90-000108
90-000121
90-000170
90-000487
90-000603
90-000834
90-001483
90-001500
90-001508
90-001513
90-001517
90-001960
90-001975
90-001984
90-001997
90-002149
90-002186
90-002210
90-002295
90-002298
90-003013
90-003031
90-003032

...CONTINUED...
Salmo salar
Age/Growth
90-003036
90-003534
90-003535
90-004001
90-004644
90-005028
90-005268
90-005776
Aggressive Behavior
90-003758
Alkalinity
90-003029
Allozymes
90-000447
90-003665
90-005443
Aluminum
90-002652
90-003040
90-006238
Amino Acids
90-001583
Anesthetics
90-005342
Antigens
90-004134
Aquariums
90-001505
Aromatic Hydrocarbons
90-006158
Artificial Spawning Beds
90-001485
Bacterial Diseases
90-000741
90-000753
90-002389
90-002391
90-002402
90-003399
90-004091
90-004111
90-004113
90-004121
90-004134
Bactericides
90-004111
Behavior
90-004367
Bioaccumulation
90-002627
90-003040
90-006158
Biochemical Composition
90-000357
90-000439
90-000451
90-001857
90-004225
90-005269
90-005342
Biofiltration
90-001506
Biological Monitoring
90-000852
Brackishwater Culture
90-004907
90-005776
Brain
90-000451

...CONTINUED...
Salmo salar
Brain
90-006168
Brood Stock
90-001479
90-001505
90-001518
90-001558
90-001997
90-002060
90-003015
90-003700
90-005991
Cadmium
90-002627
Cage Culture
90-001479
90-001513
90-001977
90-004905
90-005051
90-005776
Carbaryl
90-005994
Carcass Traits
90-001425
Cardiovascular System
90-001964
90-005326
Carotenoids
90-001997
Chloride Cells
90-000319
Chromosomes
90-003647
Climate
90-001290
Coexistence
90-003753
Cojoined Twins
90-005123
Competition
90-002277
Condition Factors
90-001960
90-003547
90-004225
90-005419
Coronary Lesions
90-001964
Corticosteroids
90-005207
Cortisol
90-001834
90-002402
90-005207
Cryopreservation
90-001478
Crypsis
90-000487
Culture/Propagation
90-000029
90-000034
90-000086
90-000087
90-000098
90-000108
90-000118
90-000121
90-000357
90-000462

...CONTINUED...
Salmo salar
Culture/Propagation
90-000483
90-000741
90-001425
90-001478
90-001479
90-001483
90-001485
90-001489
90-001493
90-001494
90-001500
90-001505
90-001506
90-001508
90-001511
90-001513
90-001517
90-001518
90-001542
90-001558
90-001583
90-001629
90-001769
90-001975
90-001977
90-001997
90-002037
90-002060
90-002186
90-002383
90-002389
90-002390
90-002391
90-002627
90-003008
90-003013
90-003015
90-003029
90-003031
90-003032
90-003036
90-003037
90-003039
90-003040
90-003618
90-003631
90-003663
90-003688
90-003700
90-004111
90-004192
90-004632
90-004905
90-004907
90-004908
90-004920
90-005024
90-005028
90-005047
90-005051
90-005058
90-005776
90-005909
90-005982
90-005991
Currents
90-003547
Cytology
90-003309

...CONTINUED...
Salmo salar
Dams
90-006431
Data Bases
90-001629
Dermocystidium
90-002405
Diagnostic Techniques
90-000753
Dibenzofuran
90-006158
Diets
90-000086
90-000087
90-000098
90-000108
90-000118
90-000121
90-001542
Digestive System
90-005058
90-005271
Dioxin
90-006158
Disease Susceptibility
90-002402
90-005909
90-005991
Disease-Free Culture
90-000741
90-002383
90-002383
90-002389
90-002390
90-002391
90-003008
90-004111
Distribution/Factors of
90-005841
Distribution/Seasonal
90-003753
DNA
90-000447
90-000451
90-000462
90-003665
Dominance
90-003756
90-003758
Dredging
90-004632
90-004657
Early Development
90-000216
90-000329
90-000487
90-001783
90-002046
90-003647
90-005268
Economics
90-002390
Egg Collection
90-001518
Egg Composition
90-001997
Egg Identification
90-006767
Egg Production
90-000086
90-003029

...CONTINUED...
Salmo salar
Egg Production
90-003040
90-003339
Egg Quality
90-001518
Egg Size
90-002210
Egg Survival
90-001494
90-001518
90-003339
Eggs
90-001819
Electrofishing
90-001263
90-001454
90-004849
Electrolytes
90-005342
Embryology
90-000329
90-000419
90-001819
90-003647
Endocrinology
90-000326
90-001772
90-001806
90-001857
90-001948
90-001964
90-001983
90-003480
90-005207
90-005364
Environmental Impacts
90-003008
90-003688
Enzymes
90-001773
90-002037
90-003309
90-005464
90-006168
Epidermis
90-000875
Ergasilus labracis
90-000791
Escape Behavior
90-000487
90-005280
Estradiol
90-001857
90-001983
Exercise
90-003547
90-005419
Exploitation Rates
90-004050
90-004657
Fatty Acids
90-000392
90-001542
90-001977
90-003576
90-005500
Fecundity
90-000603
90-002209
90-002210

...CONTINUED...
Salmo salar
Feeding Experiments
90-000098
90-001489
90-001500
90-001506
90-001542
90-003031
90-003039
90-005028
90-005047
90-005051
90-005058
Feeds
90-000086
90-000087
90-000118
90-000121
90-001558
90-001583
90-002627
90-005024
90-005271
Fenitrothion
90-004367
90-006168
Fertilization
90-001478
90-001811
Fin Erosion
90-004225
Fish Kills
90-001977
Fish Passage
90-006431
Fish Preservation
90-002963
Fishways
90-006431
Flow Regimes
90-001226
90-001263
90-001290
Fluoride
90-006238
Food Conversion Efficiency
90-001500
90-001542
Foods/Feeding
90-000118
90-002277
90-002283
90-003031
90-003039
90-005747
Forecasting
90-001073
Fright Behavior
90-005280
90-005537
Fry Production
90-000098
90-001485
90-005028
90-005047
Fungal Diseases
90-002405
Furunculosis
90-004113
Gene Polymorphism
90-000479

...CONTINUED...
Salmo salar
Genetic Diversity
90-003676
90-003688
Genetic Engineering
90-003534
Genetic Markers
90-000991
Genetic Strains
90-000991
90-003013
Genetics
90-001087
90-001479
90-002037
90-002060
90-003015
90-003032
90-003618
90-003631
90-003663
90-003688
90-003700
90-004920
90-005479
Gill Diseases
90-000770
Gill Parasites
90-000753
Gills
90-000319
90-000392
Gonosomatic Index
90-001823
Growth Hormone
90-001772
90-001773
90-003303
90-003534
90-005364
Gynogenesis
90-005479
Gyrodactylus salaris
90-005991
Habitat Alterations
90-001226
90-004632
90-004657
Habitat Evaluation
90-002761
90-002875
Habitat Rating Systems
90-002761
Habitat Selection
90-003753
90-004849
90-005530
Hardness
90-001825
Harvest
90-001073
90-004485
Hatchery Releases
90-004905
90-006379
90-006380
Hatchery/Wild Populations
90-000357
90-000439
90-000462
90-000483

...CONTINUED...
Salmo salar
Hatchery/Wild Populations
90-000991
90-001425
90-001542
90-002037
90-003618
90-003631
90-003688
90-004905
Hatching
90-001494
90-003029
90-003339
Heart
90-001975
90-001977
90-006006
Heavy Metals
90-002627
Hematology
90-000326
90-001769
90-001778
90-002035
90-002402
90-003478
90-005984
Heterozygosity
90-002037
Histology
90-000451
90-000875
90-005269
90-006006
Hormones
90-000326
90-001783
90-001806
90-001948
90-001964
90-002024
90-005419
Hypoxia
90-003029
Immune Response
90-002402
90-003309
90-003399
90-004091
90-004113
90-005207
Immunization
90-004091
90-005909
Immunoglobulins
90-004091
Impoundment
90-001226
90-004632
Inbreeding
90-002060
90-003688
Incubation
90-003040
Incubation Channels
90-001485
Induced Maturation
90-001806
Induced Smoltification
90-001513

...CONTINUED...
Salmo salar
Induced Smoltification
90-003303
Infectious Hematopoietic Necrosis
90-005984
Infectious Pancreatic Necrosis
90-000741
90-004091
Insecticides
90-004367
Insects
90-002283
Interspecies Relationships
90-000487
90-002277
90-003753
90-004644
90-006540
Ion Transport
90-000329
90-001819
90-002652
90-005326
Jaws
90-004192
Lake Ranching
90-004632
Landlocked Populations
90-000197
90-000462
90-004632
Larvae
90-001997
90-003032
Length-Weight Relationships
90-002295
90-004001
Lepeophtheirus salmonis
90-005994
90-006012
90-006026
Life History/General
90-001087
90-002149
Light
90-000034
90-000875
90-001513
90-005047
Liming
90-006551
Lipid Composition
90-000392
90-001977
90-005500
Lipid Content
90-001542
90-001960
Lipid Metabolism
90-003576
Liver
90-001779
90-001977
90-005984
Logging Residue
90-004657
Mammal Predation
90-000647
90-004863
Management/Research--Estuaries
90-004497

...CONTINUED...
Salmo salar
Management/Research--Lakes
90-002273
90-004632
90-006540
90-006548
Management/Research--Marine
90-001290
90-004050
90-004485
90-005673
Management/Research--Rivers and Streams
90-000834
90-000991
90-001225
90-001226
90-001263
90-001290
90-001454
90-002875
90-003753
90-004644
90-004657
90-004674
90-005530
90-005651
90-005841
90-006431
90-006551
Marking/Tagging
90-002718
90-002985
90-003729
90-004497
Mate Selection
90-003758
Maturation
90-000357
90-001087
90-001479
90-001834
90-001960
90-001964
90-002186
90-002209
90-002295
90-003031
90-003039
90-003535
90-003663
90-005464
90-005776
Medication In Diets
90-001583
Meristic Studies
90-000197
Metabolic Rates
90-001917
Microhabitat
90-003753
90-004849
90-005530
Migration
90-000592
90-002024
90-002149
90-003729
90-003759
90-003847
90-005686

...CONTINUED...
Salmo salar
Mitochondria
90-003665
Modeling
90-001087
Morphometry
90-000197
Mortality Factors
90-000294
90-001983
Movements
90-004497
90-005841
Mucous Cells
90-003309
Muscle Proteins
90-000366
90-004863
Musculature
90-000366
90-001977
90-005268
90-005269
Nitrite
90-000419
90-001778
Nitrogen Metabolism
90-000419
Noise
90-003037
Nutrition
90-000086
90-000098
90-000108
90-001558
90-001997
Ocean Ranching
90-001489
90-001493
90-002186
Orientation/Homing
90-003759
90-005566
Osmoregulation
90-000294
90-001583
90-001769
90-001772
90-001823
90-001974
90-001986
90-003478
90-005280
90-005326
90-005537
Osteology
90-000170
Otoliths
90-002298
Overwintering
90-002273
Oxolinic Acid
90-004111
Oxygen
90-001917
90-002035
90-003029
Oxytetracycline
90-003008
90-004111
Paramoeba
90-000770

...CONTINUED...
Salmo salar
Parasites/Diseases
90-000741
90-000753
90-000770
90-000791
90-001964
90-002383
90-002389
90-002390
90-002391
90-002405
90-003008
90-003399
90-004091
90-004111
90-004113
90-004121
90-004134
90-004192
90-004225
90-005909
90-005982
90-005984
90-005991
90-005994
90-006006
90-006012
Parasitic Copepods
90-000791
90-005994
90-006012
90-006026
Parr-Smolt Transformation
90-000294
90-000319
90-001087
90-001483
90-001489
90-001493
90-001508
90-001511
90-001513
90-001517
90-001769
90-001773
90-001779
90-001825
90-001917
90-001948
90-001974
90-001975
90-001984
90-002024
90-002149
90-002652
90-003037
90-003480
90-003618
90-003847
90-004908
90-005058
90-005326
Pesticides
90-006168
pH
90-001811
90-001825
90-002652
90-004001
pH Regulation
90-003478

...CONTINUED...
Salmo salar
Photoperiodism
90-000034
90-000216
90-000319
90-001508
90-001511
90-001517
90-001772
90-001975
90-003036
90-005047
Pigments
90-001997
Polychlorinated Biphenyls
90-006158
Polymorphism
90-000439
Population Genetics
90-002040
Population Studies
90-001226
90-001290
90-004050
90-004657
90-005651
Predator/Prey Relationships
90-000294
90-000487
90-000647
90-002273
90-002283
90-005537
Production
90-004644
90-005651
90-006551
Protein Metabolism
90-000087
Protein Synthesis
90-000087
Proteins
90-000479
90-000483
90-001779
Protozoan Diseases
90-000770
Radiation
90-000875
Recirculating Systems
90-001506
Recruitment
90-003847
90-004050
90-004657
90-006551
Remote Sensing
90-002761
Reproduction
90-000216
90-000357
90-002040
Reproductive Cycle
90-001857
90-001960
Reproductive System
90-000326
90-001823
Respiration
90-003478
Respiratory System
90-001986

...CONTINUED...
Salmo salar
Restoration of Anadromous Runs
90-004674
Reticulo-Endothelial System
90-001765
RNA
90-000451
Salinity
90-000294
90-000392
90-001500
90-001769
90-001823
90-001974
90-001984
90-001986
90-002652
90-003013
90-003039
90-003478
90-003480
90-004908
90-005058
90-005326
90-005364
90-005537
90-006026
Samplers/Stomach
90-002985
Sampling
90-001454
90-004849
Scuba
90-004849
Season
90-001493
90-001542
90-001823
90-001960
90-001986
Selective Breeding
90-003015
90-003700
Serratia liquefaciens
90-004121
Sex Reversal
90-001983
Sexual Precocity
90-002209
90-005776
Shoaling Behavior
90-005537
Shock
90-003339
Size at Release
90-002295
90-006379
90-006380
Size Hierarchies
90-003756
Smoking Fish
90-002963
Social Behavior
90-003756
Sodium
90-000329
Spawning
90-000592
90-003729
90-003759
90-005686

...CONTINUED...
Salmo salar
Spawning Cycle Regulation
90-003031
90-003039
Spawning Grounds Evaluations
90-002761
Spawning Substrates
90-001485
90-001494
Species Identification
90-004863
Sperm
90-001811
Sperm Preservation
90-001478
Starvation
90-003031
90-003039
Stock Assessment
90-004657
90-005673
Stock Identification
90-000462
90-000991
90-005481
Stocking/Introductions
90-000991
90-003631
90-004632
90-005651
90-006379
90-006380
Stomach Fullness
90-002985
Storage Effects
90-002963
Stream Classification
90-002875
Stress
90-000294
90-001778
90-002402
90-005207
90-005280
90-005537
Sulphadiazine
90-004111
Supplemental Stocking
90-004632
90-004674
Survival
90-000294
90-001489
90-001493
90-001997
90-003013
90-003032
90-004920
90-005028
90-006379
90-006380
Swimming Performance
90-001834
90-003547
Tank Culture
90-000034
90-001483
90-003037
90-003039
Temperature
90-000216

...CONTINUED...
Salmo salar
Temperature
90-000341
90-001225
90-001290
90-001489
90-001511
90-001517
90-001772
90-001823
90-001974
90-001977
90-003013
90-005686
Thermal Pollution
90-006548
Thermal Tolerance
90-001977
Thyroid Gland
90-001783
90-001984
90-002024
90-005419
Thyroxine
90-001483
90-001773
90-001984
90-002024
90-003480
Trace Elements
90-000108
Transportation
90-001505
Treatment
90-005994
Trematodes
90-005991
Trimethoprim
90-004111
Triploid Fish
90-002035
90-005479
Trophic Relationships
90-002273
Vaccination
90-000741
90-002383
90-002389
90-002390
90-002391
90-004134
Variation Studies
90-000197
90-000439
90-000447
90-000451
90-000479
90-000483
90-001087
90-002046
90-003663
90-003665
90-005464
Vibrio anguillarum
90-002389
90-002390
Vibrio salmonicida
90-002383
90-002391
90-002402
90-004091

...CONTINUED...
Salmo salar
Viral Diseases
90-000741
90-004091
90-005982
90-005984
Visual Estimation Methods
90-004849
Vitamins
90-003399
Vitellogenin
90-000341
90-001857
Water Quality
90-004644
90-004907
Winterkill
90-001977
Yersinia ruckeri
90-000741
Yield
90-001290
Zoogeography
90-002149
Salmo salar sebago
Condition Factors
90-003550
Swimming Performance
90-003550
Temperature
90-003550
Salmo trutta
Abundance/Factors of
90-000972
90-000987
90-001212
90-004628
90-005579
Acidification
90-005231
90-006055
Activity Patterns
90-000509
90-005530
Aeromonas salmonicida
90-002401
90-004113
Age/Growth
90-000030
90-000170
90-000577
90-002158
90-003989
90-004644
90-005691
Aggressive Behavior
90-005579
Aluminum
90-006237
Angling
90-000987
Artificial Spawning Beds
90-001485
Bacterial Diseases
90-002401
90-004113
Bioaccumulation
90-002542
90-004335
90-006137
Biological Monitoring
90-004262

...CONTINUED...
Salmo trutta
Biomass
90-004660
90-006629
Biosorption
90-000882
90-002506
90-004262
Brood Stock
90-001518
Calcium
90-002649
Catch Per Unit Effort
90-001212
Cesium
90-002506
Coexistence
90-003753
Coloration
90-003658
Competition
90-002335
Condition Factors
90-003547
Cortisol
90-000242
Culture/Propagation
90-000030
90-000440
90-001485
90-001518
90-001980
90-002401
90-003006
90-003024
90-003631
90-003946
90-004509
90-005412
Culverts
90-004541
Currents
90-003547
90-004573
Dams
90-001276
90-002771
Density
90-000540
Detoxification
90-002649
Dioxin
90-002542
Dispersal
90-000993
Distribution/Factors of
90-005841
Distribution/Geographical
90-000446
Distribution/Seasonal
90-003753
DNA
90-000448
Drawdowns
90-002771
Early Development
90-002046
90-003989
90-006237
Egg Collection
90-001518

...CONTINUED...
Salmo trutta
Egg Composition
90-005351
Egg Identification
90-006767
Egg Production
90-003339
Egg Quality
90-001518
Egg Survival
90-001518
90-003339
90-005685
Electrofishing
90-001263
90-001454
90-004849
Electrophoresis
90-003659
90-003670
90-004501
Endocrinology
90-000242
90-001771
90-001947
90-005231
Environmental Impacts
90-003005
90-003006
Enzymes
90-001980
90-003658
Epidermis
90-001947
Evolution
90-002074
Exercise
90-000250
90-003547
Exotic Species/Yugoslavia
90-002335
Exploitation Rates
90-000993
90-004628
90-006455
Fecundity
90-005351
90-005721
Fingerling Stocking
90-003946
Fish Control/Removal
90-002846
Fishing Tournaments
90-002843
Flow Regimes
90-001263
90-004573
90-005707
90-006453
90-006577
Foods/Feeding
90-002255
90-002283
90-003946
Fry Production
90-001485
Furunculosis
90-004113
Genetic Diversity
90-003658
90-003659

...CONTINUED...
Salmo trutta
Genetic Diversity
90-003670
90-003691
Genetic Markers
90-000446
90-000448
90-003006
Genetic Strains
90-001320
90-006055
Genetics
90-000440
90-003631
Habitat Alterations
90-000972
Habitat Evaluation
90-004572
90-006453
Habitat Improvement/General
90-001276
90-006604
Habitat Selection
90-001251
90-003753
90-004573
90-004849
90-005530
90-005707
Hardness
90-000882
Harvest
90-004485
Hatchery/Wild Populations
90-003005
90-003006
90-003631
90-003657
90-004501
90-004509
90-005412
Hatching
90-003339
Heavy Metals
90-000882
90-002649
90-004262
90-004335
90-006137
Hormones
90-001947
HSI
90-004573
90-006577
Illegal Harvest
90-006455
Immune Response
90-004113
Impoundment
90-006577
Incubation Channels
90-001485
Induced Maturation
90-001771
Insects
90-002283
Instream Flow
90-006453
90-006577
Interspecies Relationships
90-003753

...CONTINUED...
Salmo trutta
Interspecies Relationships
90-004644
Lactate Dehydrogenase
90-000446
Life History/General
90-000540
90-000547
90-000569
90-002163
90-005860
Magnesium
90-002649
Management/Research--Lakes
90-000030
90-002506
90-002697
90-002843
90-002846
90-004608
90-004628
Management/Research--Marine
90-004485
Management/Research--Ponds
90-000030
Management/Research--Reservoirs
90-000547
90-001320
90-002771
Management/Research--Rivers and Streams
90-000577
90-000972
90-000987
90-000993
90-001212
90-001225
90-001251
90-001263
90-001276
90-001454
90-002163
90-002255
90-003753
90-004509
90-004572
90-004573
90-004644
90-004660
90-004674
90-005530
90-005579
90-005841
90-006453
90-006554
90-006577
90-006604
90-006629
Marking/Tagging
90-002985
90-006369
Maturation
90-005691
Microhabitat
90-003753
90-004573
90-004849
90-005530
Migration
90-000569
90-002697

...CONTINUED...
Salmo trutta
Migration
90-003989
90-005860
Mitigation
90-006604
Modeling
90-004572
Movements
90-000993
90-005528
90-005841
Muscle Proteins
90-000366
Musculature
90-000366
Myxosoma cerebralis
90-002407
Neoechinorhynchus rutili
90-002457
Nests/Nesting
90-005707
Nets/Gill Nets
90-006459
Nets/Netting
90-006459
Nursery Areas
90-002255
Orientation/Homing
90-005566
Osmoregulation
90-005412
Osteology
90-000170
Parasites/Diseases
90-002401
90-002407
90-002457
90-004113
Parr-Smolt Transformation
90-000569
90-001980
90-003024
90-005412
pH Regulation
90-005231
Pigments
90-005351
Pollution
90-002506
Pollution Detection
90-004262
Pollution Tolerance
90-006055
Pond Culture
90-000030
90-003946
90-004509
Population Genetics
90-000446
90-000448
90-002074
90-003657
90-003670
90-003691
Population Studies
90-000540
90-000577
90-001276
90-001320
90-002158

...CONTINUED...
Salmo trutta
Population Studies
90-002163
90-004660
90-006554
Predator/Prey Relationships
90-002283
Production
90-004644
90-006629
Protozoan Diseases
90-002407
Radiation
90-002506
Recreational Benefits
90-004608
90-006455
Recruitment
90-000577
90-002158
Regulations/Catch and Release
90-006455
Regulations/Size Limits
90-000987
90-006455
Reproductive Cycle
90-001947
Reservoir Release Effects
90-002771
Restoration of Anadromous Runs
90-004674
Road Construction
90-004541
Samplers/Stomach
90-002985
Sampling
90-001454
90-004849
Scales
90-006369
Scuba
90-004849
Season
90-001980
Sexual Precocity
90-005691
Shock
90-003339
Silver
90-004335
90-006137
Size at Release
90-000993
90-004509
Spawning
90-005729
Spawning Substrates
90-001485
90-005685
90-005707
90-005729
Sportfishing
90-000993
90-001212
90-001320
90-002843
90-006554
Stocking/Introductions
90-000993
90-001320
90-002335

...CONTINUED...
Salmo trutta
Stocking/Introductions
90-003631
90-003946
90-004501
90-004509
Stomach Fullness
90-002985
Stream Classification
90-001251
Stress
90-000242
90-005231
Strontium
90-006369
Substrate Composition
90-005685
Supplemental Stocking
90-004628
90-004674
Survival
90-000540
90-000577
90-000993
90-004509
90-005685
90-005729
90-005860
90-006237
Swimming Performance
90-003547
Telemetry
90-005528
Temperature
90-000030
90-001225
90-003989
Temperature Selection
90-005528
Territorial Behavior
90-005579
Thermal Pollution
90-002697
Thyroxine
90-005412
Trematodes
90-002457
Triploid Fish
90-000440
Trophic Relationships
90-002542
90-006577
Trout Stream Management
90-006604
Variation Studies
90-001980
90-002046
90-002074
90-003658
90-005729
Visual Estimation Methods
90-004849
Water Level Fluctuations
90-004628
Water Quality
90-004644
Weirs
90-000972
Wild Trout Management
90-006554
Winterkill
90-000030

...CONTINUED...
Salmo trutta
Yield-per-Recruit
90-006459
Zinc
90-000882
90-002649
Salmo trutta caspius
Early Development
90-003414
Fatty Acids
90-003414
Salmo trutta fario
Abundance/Factors of
90-004234
Acidification
90-002585
90-005296
Alpine Lakes
90-002585
Aluminum
90-002585
Brain
90-005334
Catecholamines
90-005334
Chromosomes
90-000459
Cryopreservation
90-001620
Culture/Propagation
90-001620
Cytology
90-003260
90-005334
Eggs
90-004499
90-005296
Fish Kills
90-002585
Growth Hormone
90-000342
Hatchery/Wild Populations
90-000459
Hypothalamic-Hypophysial System
90-000342
Karyotypes
90-000459
Land Use
90-004234
Management/Research--Lakes
90-002585
Management/Research--Rivers and Streams
90-004234
Marking/Tagging
90-004499
Osteology
90-003260
pH
90-005296
Pituitary Gland
90-005334
Pollution
90-002585
90-004234
Reintroductions
90-000459
Sewage Effluents
90-004234
Sperm Preservation
90-001620

...CONTINUED...
Salmo trutta fario
Stock Identification
90-000459
Stocking/Introductions
90-000459
90-002585
Tetracycline
90-004499
Variation Studies
90-000459
Salmo trutta lacustris
Management/Research--General
90-000936
Population Studies
90-000936
Stock Assessment
90-000936
Salmo trutta trutta
Cortisol
90-003466
Endocrinology
90-003466
Growth Hormone
90-003466
Osmoregulation
90-003466
Salmonidae
Age/Growth
90-000330
90-003021
Androgen
90-002066
Ascorbic Acid
90-000116
Bibliographies
90-004923
90-005617
Bioenergetics
90-002806
Biomass Dynamics
90-006607
Brood Stock
90-001492
90-001504
90-001551
90-003021
Canopy
90-004667
90-006607
Carbohydrate Metabolism
90-001820
Carcass Traits
90-005010
Cell Culture
90-005303
Ceratomyxa shasta
90-002411
Climate
90-002532
Collagen
90-000324
Computer Applications
90-004919
Condition Factors
90-001908
90-003021
Corticosteroids
90-005303
Cortisol
90-001971
Cryopreservation
90-001616

...CONTINUED...
Salmonidae
Culture/Propagation
90-000033
90-000116
90-001481
90-001492
90-001503
90-001504
90-001546
90-001551
90-001565
90-001616
90-001854
90-002066
90-002192
90-003021
90-004201
90-004919
90-004923
90-005010
90-005090
90-006777
Dewatering
90-002693
Diets
90-000116
90-005010
Disease Susceptibility
90-003021
DNA
90-000474
Drinking Behavior
90-000381
Egg Collection
90-001616
Egg Preservation
90-001616
Egg Survival
90-002693
90-003895
90-005714
Eggs
90-005303
Environmental Impacts
90-001492
Evolution
90-000474
Exotic Species
90-004511
Fecundity
90-001492
90-001551
Feeding Experiments
90-001546
90-001565
Feeds
90-000116
90-001546
Fertilization
90-001616
Fingerling Production
90-000033
Fisherman/Angler Surveys
90-001297
Flow Regimes
90-001216
90-006439
Foods/Feeding
90-000147
90-000381
Forestry Practices
90-004472

...CONTINUED...
Salmonidae
Fry Production
90-001565
Gear Selectivity
90-004522
Genetics
90-001087
90-001492
90-001504
90-002066
90-003021
90-005428
Grazing
90-004667
90-006607
Growth Hormone
90-001971
Habitat Alterations
90-001216
90-004472
90-006607
Habitat Evaluation
90-001216
90-005617
90-006250
Habitat Rating Systems
90-006439
Habitat Selection
90-004667
90-005617
Hatchery/Wild Populations
90-001492
Helminths
90-004211
Henneguya
90-005969
Hormones
90-001820
90-001971
90-005090
HSI
90-006439
Impoundment
90-001216
90-006439
Inbreeding
90-001504
Induced Maturation
90-002192
90-005090
Instream Flow
90-006439
90-006561
Irrigation Projects
90-001216
Lernaea elegans
90-004201
Life History/General
90-001087
90-002233
Lipid Metabolism
90-001820
90-001971
Logging Residue
90-004472
Management/Research--General
90-004433
Management/Research--Lakes
90-001119
90-002532
90-004511

...CONTINUED...
Salmonidae
Management/Research--Lakes
90-004601
Management/Research--Rivers and Streams
90-001216
90-001297
90-004472
90-004648
90-004667
90-005617
90-006250
90-006356
90-006439
90-006561
90-006607
Marking/Tagging
90-006374
Masculinization
90-002066
Maturation
90-001087
90-001481
Microhabitat
90-004667
90-006561
Migration
90-002184
90-002233
Misc. Equipment/Intragravel Water Samplers
90-004648
Modeling
90-001087
Myxobolus
90-005969
Myxobolus cerebralis
90-005964
Nests/Nesting
90-002693
90-003895
90-004648
Nets/Gill Nets
90-004522
Nets/Netting
90-004522
Nutrition
90-000330
90-001551
Ocean Ranching
90-001492
Oil Pollution
90-006250
Osmoregulation
90-000381
90-001854
Parasites/Diseases
90-002411
90-003021
90-004201
90-004211
90-004217
90-005964
90-005969
Parasitic Copepods
90-004201
Parr-Smolt Transformation
90-001087
90-001854
90-001971
Photoperiodism
90-001481

...CONTINUED...
Salmonidae
Planning
90-004433
Pollution Tolerance
90-001908
Population Studies
90-002184
90-004601
90-004667
Predator/Prey Relationships
90-000147
90-002806
Production
90-002806
Protozoan Diseases
90-002411
90-005964
90-005969
Public Health Problems
90-005010
Regulations/Catch and Release
90-006356
Reproduction
90-001908
90-002192
Reservoir Release Effects
90-001216
Riparian Habitat
90-004667
90-005617
90-006607
Salinity
90-000381
90-001971
Sedimentation
90-000147
90-005714
Selective Breeding
90-004919
Site Suitability
90-001503
Social Values
90-006356
Spawning
90-003895
90-004648
Spawning Cycle Regulation
90-001481
Spawning Substrates
90-002693
90-003895
90-004648
90-005714
Sperm Preservation
90-001616
Steroids
90-005303
Stocking/Introductions
90-004511
90-004601
Storage Effects
90-006733
Survival
90-000033
Telemetry
90-006374
Temperature
90-001481
90-002532
90-004648
Thermal Pollution
90-002532

...CONTINUED...
Salmonidae
Thyroxine
90-001971
Transportation
90-001503
Trophic Relationships
90-004511
Ulcerative Dermal Necrosis
90-004217
Variation Studies
90-001087
Water Quality
90-000033
Weather
90-005714
Whirling Disease
90-005964
Salvelinus
Culture/Propagation
90-002192
Early Development
90-005141
Enzymes
90-003682
Induced Maturation
90-002192
Management/Research--Rivers and Streams
90-001458
Reproduction
90-002192
Species Identification
90-005141
Stock Identification
90-005141
Variation Studies
90-003682
90-005141
Salvelinus alpinus
Abundance/Factors of
90-004628
Acidification
90-001172
Aeromonas salmonicida
90-002401
Age/Growth
90-000245
90-002061
90-002293
90-002296
90-003013
90-003711
90-003948
90-004494
90-004902
90-005604
90-005821
Amino Acids
90-000234
Arctic Habitat
90-001164
Bacterial Diseases
90-002401
Biochemical Composition
90-000245
Biosorption
90-002506
Brackishwater Culture
90-004907
Brood Stock
90-001502

...CONTINUED...
Salvelinus alpinus
Brood Stock
90-002061
Cesium
90-002506
Chemoreception
90-003778
Chromosomes
90-002048
Condition Factors
90-002061
Culture/Propagation
90-000095
90-000096
90-001502
90-002061
90-002401
90-003013
90-004632
90-004902
90-004907
90-005476
Distribution/Seasonal
90-003916
DNA
90-003656
90-003661
Dominance
90-003711
Dredging
90-004632
Dwarfism
90-003711
Endocrinology
90-000234
Evolution
90-000469
90-003656
Exercise
90-000245
Exotic Species/Denmark
90-000995
Exploitation Rates
90-001164
90-004628
Feeding Experiments
90-000096
Fish Grading
90-004902
Food Conversion Efficiency
90-000095
Foods/Feeding
90-000096
90-003948
Genetic Markers
90-005476
Genetic Strains
90-003013
Genetics
90-005476
Habitat Alterations
90-004632
Habitat Selection
90-003916
Histology
90-003251
Hybridization
90-005459
Impoundment
90-004632
Karyotypes
90-002048

...CONTINUED...
Salvelinus alpinus
Lake Ranching
90-004632
Landlocked Populations
90-003916
90-004632
Length-Weight Relationships
90-001164
Life History/General
90-000547
90-003711
Light
90-003948
Liming
90-001172
Management/Research--Lakes
90-001164
90-001172
90-002506
90-004628
90-004632
Management/Research--Reservoirs
90-000547
Marking/Tagging
90-004494
Mate Selection
90-000524
Maturation
90-001502
90-002293
Migration
90-003864
90-004494
90-005898
Mitochondria
90-003656
Musculature
90-000245
Olfaction
90-003778
Orientation/Homing
90-005566
Osmoregulation
90-000261
90-001827
Otoliths
90-002296
Parasites/Diseases
90-002401
90-005898
Photoperiodism
90-003251
Pituitary Gland
90-000234
Pollution
90-002506
Population Genetics
90-000469
Population Studies
90-001164
90-003864
Production
90-004902
Radiation
90-002506
Recruitment
90-003864
Reproduction
90-005604
Rheotropism
90-003778

...CONTINUED...
Salvelinus alpinus
Salinity
90-000261
90-001827
90-003013
Scales
90-005821
Season
90-000096
90-000261
90-000606
90-001827
Spawning
90-000524
90-000606
Sportfishing
90-001164
Stocking/Introductions
90-004632
Supplemental Stocking
90-004628
90-004632
Survival
90-003013
90-004494
Temperature
90-003013
Variation Studies
90-000469
90-002048
90-003661
90-003711
90-005604
Vision
90-003251
Water Level Fluctuations
90-004628
Water Quality
90-004907
Salvelinus confluentus
Age/Growth
90-000166
DNA
90-003656
Evolution
90-003656
Mitochondria
90-003656
Taxonomy
90-000166
Salvelinus fontinalis
Abundance/Factors of
90-006633
Acidification
90-002535
90-004577
90-004602
90-006106
90-006147
90-006148
90-006149
90-006169
90-006185
90-006242
Activity Patterns
90-000509
Aeromonas salmonicida
90-000743
90-005940
Age/Growth
90-001501

...CONTINUED...
Salvelinus fontinalis
Age/Growth
90-005404
90-006149
Aggressive Behavior
90-003748
Alpine Lakes
90-001214
90-002726
Alpine Streams
90-001228
Aluminum
90-004368
90-006147
90-006148
90-006149
90-006169
90-006185
90-006242
Aryl Hydrocarbon Hydroxylase
90-006233
Bacterial Diseases
90-000743
90-005940
Beaver Ponds
90-006633
Biomass
90-006629
Biosorption
90-006233
Calcium
90-006147
90-006148
90-006149
90-006169
90-006242
Carotenoids
90-003282
Catch Per Unit Effort
90-004570
Climate
90-004034
90-006324
Competition
90-002277
90-006603
Condition Factors
90-001021
Cortisol
90-002008
90-005404
Cryopreservation
90-001620
Culture/Propagation
90-001501
90-001620
90-002008
90-003006
90-004168
90-004924
90-005404
Culverts
90-004541
Cytochrome
90-001939
Digestive System
90-003224
Disease-Free Culture
90-004168
Distribution/Factors of
90-000609

...CONTINUED...
Salvelinus fontinalis
Distribution/Factors of
90-003789
90-004034
90-005841
90-006324
Distribution/Geographical
90-004034
Distribution/Seasonal
90-000609
DNA
90-003656
Early Development
90-006106
90-006148
90-006149
90-006242
Ectoparasites
90-004218
Eggs
90-003282
90-006149
Endocrinology
90-001939
Environmental Impacts
90-003005
90-003006
Enzymes
90-005473
Epidermis
90-006148
Evolution
90-003656
Exercise
90-000250
Exotic Species/Denmark
90-000995
Exploitation Rates
90-006455
Fecundity
90-005473
Feminization
90-001939
Fish Control/Removal
90-002846
Food Conversion Efficiency
90-005404
Food Supply
90-006074
Foods/Feeding
90-000496
90-002277
90-003748
Forestry Practices
90-006603
Genetic Markers
90-003006
Genetic Strains
90-002726
90-006147
Gills
90-004368
Habitat Alterations
90-006324
Habitat Evaluation
90-004572
90-006465
Habitat Selection
90-000609
90-001251
90-003789

...CONTINUED...
Salvelinus fontinalis
Hatchery/Wild Populations
90-002726
90-003005
90-003006
Hexamita salmonis
90-005970
Histology
90-004368
Hormones
90-001939
HSI
90-006465
Hybrid Fish
90-002726
Illegal Harvest
90-006455
Immunization
90-004168
Infectious Pancreatic Necrosis
90-004168
Insecticides
90-006074
Instream Flow
90-006465
Interspecies Relationships
90-002277
Ion Transport
90-006242
Kidneys
90-002008
Latitude
90-004034
Life History/General
90-001228
Liming
90-002535
Management/Research--Lakes
90-001214
90-002535
90-002726
90-002846
90-004570
90-004577
90-004602
90-006507
Management/Research--Rivers and Streams
90-001228
90-001251
90-001286
90-004572
90-005841
90-006074
90-006324
90-006465
90-006554
90-006603
90-006629
90-006633
Maturation
90-001501
Metabolic Rates
90-004924
Metabolism
90-003282
90-005404
Mitochondria
90-003656
Modeling
90-004572

...CONTINUED...
Salvelinus fontinalis
Movements
90-005841
Musculature
90-003282
Myxosoma cerebralis
90-002407
Oil Pollution
90-006233
Orientation/Homing
90-005566
Oxygen
90-003789
Parasites/Diseases
90-000743
90-002407
90-004168
90-004218
90-004368
90-005940
90-005970
Parasitic Copepods
90-004218
pH
90-004368
90-006148
90-006149
90-006169
90-006185
90-006242
Photoperiodism
90-001501
Pituitary Gland
90-001939
Pollution
90-004577
90-006074
Pollution Tolerance
90-006147
Population Studies
90-000609
90-001214
90-004570
90-006554
Predator/Prey Relationships
90-001286
90-004602
Production
90-006629
Prostaglandins
90-001843
90-001862
Protozoan Diseases
90-002407
90-005970
Rearing Density
90-002008
90-004924
90-005404
Recreational Benefits
90-006455
Regression Analysis
90-004570
90-004577
Regulations/Catch and Release
90-006455
Regulations/Size Limits
90-006455
Respiration
90-003789
Riparian Habitat
90-001228

...CONTINUED...
Salvelinus fontinalis
Road Construction
90-004541
Salmincola edwardsii
90-004218
Spawning Cycle Regulation
90-001501
Sperm Preservation
90-001620
Sportfishing
90-006554
Stocking/Introductions
90-001214
90-002726
Stream Classification
90-001251
Stream Improvement/General
90-001228
Stress
90-002008
90-005404
90-006169
Stunting
90-001214
Supplemental Stocking
90-002726
Survival
90-006149
90-006185
Temperature
90-006324
Territorial Behavior
90-000496
Toxic Gill Necrosis
90-004368
Toxicity Testing
90-006233
Trophic Relationships
90-004602
90-006074
90-006507
Viral Diseases
90-004168
Wild Trout Management
90-006554
90-006603
Zooplankton
90-004602
Salvelinus leucomaenis
Aeromonas salmonicida
90-002385
Age/Growth
90-004559
Bacterial Diseases
90-002385
Fatty Acids
90-000344
Foods/Feeding
90-002127
Lipid Composition
90-000344
Parasites/Diseases
90-002385
Parr-Smolt Transformation
90-004559
Predator/Prey Relationships
90-002863
Reproductive System
90-000344
Vision
90-002127
Salvelinus levanidovi
Morphology
90-004067
New Species
90-004067
Salvelinus malma
Age/Growth
90-004559
Bioaccumulation
90-004250
Digestive System
90-003224
DNA
90-003656
Evolution
90-003656
Heavy Metals
90-004250
Lead
90-004250
Management/Research--Lakes
90-004250
Management/Research--Rivers and Streams
90-001660
Mitochondria
90-003656
Morphometry
90-001660
Orientation/Homing
90-005566
Parr-Smolt Transformation
90-004559
Population Studies
90-001660
Predator/Prey Relationships
90-002863
Stock Assessment
90-001660
Taxonomy
90-001660
Trophic Relationships
90-004250
Variation Studies
90-001660
Salvelinus namaycush
Abundance/Factors of
90-000585
Acidification
90-004577
90-004613
90-004617
90-004625
90-004626
Age/Growth
90-002275
90-004613
90-006104
Alpine Lakes
90-002852
Alpine Streams
90-001228
Ammonia
90-002481
90-006104
Bacterial Diseases
90-004132
Benthos
90-004617
Bioaccumulation
90-002542

...CONTINUED...
Salvelinus namaycush
Bioaccumulation
90-006081
90-006102
90-006209
Biological Monitoring
90-002365
Blue-sac Disease
90-004132
Brood Stock
90-003014
Cannibalism
90-002852
Catch Per Unit Effort
90-004570
Chlorinated Dibenzo-p-Dioxins
90-000878
Climate
90-006460
90-006471
Culture/Propagation
90-003014
90-004132
90-004503
90-005044
Cytophaga
90-004132
Dibenzofuran
90-000878
Digestive System
90-005271
Dioxin
90-000878
90-002472
90-002542
90-002657
90-006102
90-006209
90-006210
DNA
90-003656
Early Development
90-004625
Echo Sounder
90-001435
Egg Collection
90-002980
Egg Predation
90-003745
Egg Production
90-003014
Egg Quality
90-001930
Eggs
90-002481
Epizootic Epitheliotropic Disease
90-002426
Evolution
90-003656
Exotic Species/Denmark
90-000995
Feeds
90-005044
90-005271
Fish Preservation
90-004850
Food Conversion Efficiency
90-005044
Foods/Feeding
90-002246

...CONTINUED...
Salvelinus namaycush
Foods/Feeding
90-002264
90-005752
90-005763
Forecasting
90-006460
90-006471
Genetic Diversity
90-005463
Genetic Strains
90-002728
90-005463
Habitat Alterations
90-006460
Habitat Selection
90-002978
Hatchery/Wild Populations
90-002728
90-005463
Herpesvirus
90-002426
Hybridization
90-005459
Interspecies Relationships
90-004592
90-006540
Invertebrate Forage
90-005044
Lamprey Parasitism
90-005654
90-006548
Life History/General
90-001228
90-005613
Liming
90-004613
90-004617
90-004626
Management/Research--Lakes
90-002728
90-002852
90-002978
90-004570
90-004577
90-004592
90-004613
90-004617
90-004625
90-004626
90-005654
90-006460
90-006471
90-006540
90-006548
Management/Research--Reservoirs
90-001320
Management/Research--Rivers and Streams
90-001228
Mark/Recapture
90-006451
Maximum Sustainable Yield
90-006471
Metabolic Rates
90-005181
Mitochondria
90-003656
Nutrition
90-006104
Orientation/Homing
90-005566

...CONTINUED...
Salvelinus namaycush
Oxygenation
90-003014
Parasites/Diseases
90-002365
90-002426
90-004132
pH
90-002605
90-004625
Photoperiodism
90-005181
Pollution
90-004577
Pollution Detection
90-006210
Polychlorinated Biphenyls
90-006081
Population Studies
90-000585
90-004570
90-004592
90-005654
Predator/Prey Relationships
90-002120
90-002275
90-006460
Rearing Density
90-004503
Recruitment
90-004625
90-005654
Regression Analysis
90-004570
90-004577
Reintroductions
90-002728
90-004617
Repopulation
90-005654
Reproduction
90-001835
90-001930
90-002605
90-004613
Reticulo-Endothelial System
90-001765
Riparian Habitat
90-001228
Season
90-005181
Spawning
90-001435
90-002978
90-005613
Stock Assessment
90-002275
Stock Identification
90-003686
Stocking/Introductions
90-001320
90-002728
90-004503
90-004617
90-004626
Stream Improvement/General
90-001228
Survival
90-004503
90-004613
90-004625

...CONTINUED...
Salvelinus namaycush
Swimming Performance
90-005181
Thermal Pollution
90-006548
Toxicity Testing
90-006209
90-006210
Trophic Relationships
90-002542
90-002852
90-006081
90-006460
Viral Diseases
90-002426
Wild Trout Management
90-005463
90-005654
Salvelinus pluvius
Musculature
90-003569
Nitrogen
90-003569
Sarda orientalis
Abundance/Factors of
90-001393
Catch Per Unit Effort
90-001393
Fish as Food
90-002972
Food Technology
90-002972
Management/Research--Marine
90-001393
Roe
90-002972
Taste and Odor Problems
90-002972
Sarda sarda
Coexistence
90-004755
Distribution/Seasonal
90-004755
Sardina
Distribution/Geographical
90-000691
Length Frequencies
90-006452
Stock Assessment
90-000691
Taxonomy
90-000691
Zoogeography
90-000691
Sardina pilchardus
Age/Growth
90-005815
Bioaccumulation
90-002475
90-006117
Chromium
90-002475
Computer Applications
90-001044
Copper
90-006117
Culture/Propagation
90-005004
90-005005
Egg Production
90-005004

...CONTINUED...
Sardina pilchardus
Eggs
90-002183
Foods/Feeding
90-005784
Forecasting
90-001081
Heavy Metals
90-006117
Incubation
90-005004
Induced Maturation
90-005005
Invertebrate Forage
90-005005
Larvae
90-005004
90-005005
Otoliths
90-005815
Population Studies
90-001044
90-001081
Reproductive Cycle
90-002208
Sampling
90-001044
Spawning
90-002208
Temperature
90-005004
Upwelling
90-002208
Zinc
90-006117
Sardinella
Length Frequencies
90-006452
Sardinella aurita
Abundance/Factors of
90-005637
Age/Growth
90-004000
Currents
90-005688
Distribution/Seasonal
90-002221
90-005637
DNA
90-005502
Early Development
90-005637
Life History/General
90-005637
Migration
90-002221
Mitochondria
90-005502
Otoliths
90-004000
Reproductive Cycle
90-002208
Season
90-002221
Spawning
90-002208
90-005688
Upwelling
90-002208
90-005688
Variation Studies
90-005688
Sardinella fimbriata
DDT
90-002644
Pesticides
90-002644
Sardinella longiceps
Bacterial Flora
90-003554
Bioluminescence
90-003554
DDT
90-002644
Exploitation Rates
90-002154
Life History/General
90-003799
Management/Research--Marine
90-002154
Maximum Sustainable Yield
90-002154
Mortality Rates
90-002154
Pesticides
90-002644
Population Studies
90-002154
Sardinella maderensis
Catch Per Unit Effort
90-001053
Reproductive Cycle
90-002208
Salinity
90-001053
Spawning
90-002208
Temperature
90-001053
Upwelling
90-002208
Sardinops
Distribution/Geographical
90-000691
Length Frequencies
90-006452
Stock Assessment
90-000691
Taxonomy
90-000691
Zoogeography
90-000691
Sardinops caerula
Ichthyoplankton
90-006472
Morphometry
90-003662
Population Genetics
90-003662
Population Studies
90-006472
Samplers/Larval Fish
90-006472
Sampling
90-006472
Variation Studies
90-003662
Sardinops melanosticta
Age/Growth
90-005035
ATP
90-000415
Bacterial Flora
90-004825

...CONTINUED...
Sardinops melanosticta
Culture/Propagation
90-005035
Decomposition
90-004825
Distribution/Factors of
90-003923
Distribution/Seasonal
90-003923
Feeds
90-005035
Fish as Food
90-001993
90-002966
90-002969
Fish Preservation
90-002967
Food Conversion Efficiency
90-005035
Food Technology
90-002969
Harvest
90-006403
Invertebrate Forage
90-005035
Lactate
90-000415
Lipid Content
90-001935
Lipid Metabolism
90-001935
Musculature
90-001993
Rigor Mortis
90-000415
Salinity
90-003923
Storage Effects
90-002966
90-002967
90-004825
90-004831
Taste and Odor Problems
90-002966
90-004825
Temperature
90-003923
Sardinops ocellata
Foods/Feeding
90-000629
Life History/General
90-005592
Sardinops sagax
Egg Survival
90-004056
Enzymes
90-001906
Food Technology
90-001426
Harvest
90-004728
Management/Research--Marine
90-004728
Nervous System
90-001906
pH
90-001906
Swimming Performance
90-001906
Sardinops sagax sagax
Recruitment
90-005657
Sargocentron rubrum
Management/Research--Marine
90-001409
Reef Fish Communities
90-001409
Sarpa salpa
Ciguatera
90-006119
Enzymes
90-001907
Eyes
90-000228
Osmoregulation
90-001907
Public Health Problems
90-006119
Salinity
90-001907
Satanoperca leucosticta
Hermaphroditism
90-000184
Saurida elongata
Harvest
90-006403
Saurida tumbil
Catch Per Unit Effort
90-004787
Saurida undosquamis
Catch Per Unit Effort
90-004787
Scaphirhynchus
Branchial Basket
90-001670
Scaphirhynchus albus
Culture/Propagation
90-006388
Supplemental Stocking
90-006388
Scaphirhynchus platorynchus
Culture/Propagation
90-006388
Supplemental Stocking
90-006388
Scardinius erythrophthalmus
Age/Growth
90-001114
Backwater Lakes
90-005526
Biosorption
90-002604
Bird Predation
90-002338
Chlorinated Hydrocarbons
90-002604
Eyes
90-000417
Fish Control/Removal
90-006512
90-006530
90-006545
Flow Regimes
90-006567
Foods/Feeding
90-000632
90-001114
90-002268
90-005526
Heavy Metals
90-002604
Hybrid Identification
90-005492

...CONTINUED...
Scardinius erythrophthalmus
Hybridization
90-005492
Interspecies Relationships
90-005526
Management/Research--Lakes
90-001114
90-002834
90-002855
90-006512
90-006518
90-006523
90-006545
Management/Research--Rivers and Streams
90-005526
Neoplasms
90-006009
Nutrients
90-002834
90-002855
Parasites/Diseases
90-006009
Pesticides
90-002604
Phosphorus
90-002834
Phytoplankton
90-002834
Pigments
90-000417
Population Studies
90-006518
Predator/Prey Relationships
90-000632
Recruitment
90-006567
Schooling Behavior
90-005526
Season
90-000417
Sewage Effluents
90-002604
Stocking/Introductions
90-002855
90-006512
90-006519
90-006523
90-006545
Trophic Relationships
90-002834
90-002855
90-006512
90-006518
90-006519
90-006523
90-006530
Tumors
90-006009
Vision
90-000417
Water Quality
90-002855
Scaridae
Coloration
90-000163
Early Development
90-000163
Foods/Feeding
90-005746
Life History/General
90-003837

...CONTINUED...
Scaridae
Mouth Parts
90-005746
Reef Fish Communities
90-003837
90-005746
Respiration
90-001808
Scartella cristata
Coastal Habitat
90-004749
Distribution/Geographical
90-004749
Management/Research--Marine
90-004749
Population Studies
90-004749
Scartichthys
Evolution
90-004086
Osteology
90-004086
Taxonomy
90-004086
Scarus iserti
Bioenergetics
90-002089
Interspecies Relationships
90-005535
Reef Fish Communities
90-002089
Territorial Behavior
90-002089
Scarus sordidus
Morphology
90-002049
Pharyngeal Teeth
90-002049
Schedophilus huttoni
Distribution/Geographical
90-004015
Schilbe mystus
Foods/Feeding
90-000626
Schismatogobius deraniyagalai
New Species
90-004074
Schizopygopsis stoliczkai
Colonization
90-002169
Management/Research--Lakes
90-002169
Population Studies
90-002169
Sciaena deliciosa
Gill Parasites
90-000796
Hargicotyle
90-000796
Parasites/Diseases
90-000796
Trematodes
90-000796
Sciaena dussumieri
Bacterial Flora
90-003554
Bioluminescence
90-003554
Sciaena fasciata
Gill Parasites
90-000796

...CONTINUED...
Sciaena fasciata
Hargicotyle
90-000796
Parasites/Diseases
90-000796
Trematodes
90-000796
Sciaena russelli
Biological Monitoring
90-006054
Heavy Metals
90-006054
Sciaena umbra
Learning
90-005590
Size Hierarchies
90-005590
Social Behavior
90-005590
Sciaenidae
Bays
90-000867
Enzymes
90-003335
Fish Kills
90-000867
Lactate Dehydrogenase
90-003335
Management/Research--Marine
90-000867
Pollution
90-000867
Temperature
90-003335
Sciaenops ocellatus
Age/Growth
90-002284
90-003097
90-004945
Ammonia
90-002661
Brood Stock
90-003097
Carcass Traits
90-001425
Condition Factors
90-004976
Culture/Propagation
90-001425
90-003097
90-004514
90-004899
90-004945
90-004976
Dikes
90-004455
Electrophoresis
90-000467
Enzymes
90-000467
Erosion Control
90-004455
Exploitation Rates
90-006292
Fatty Acids
90-006758
Fingerling Production
90-003097
Fish Kills
90-004309
Harvest
90-005621

...CONTINUED...
Sciaenops ocellatus
Hatchery/Wild Populations
90-001425
90-006758
Hormones
90-004976
Isozymes
90-000467
Laws/Law Enforcement
90-006758
Life History/General
90-005621
Lipid Composition
90-002970
Management/Research--General
90-004455
Management/Research--Marine
90-004514
Marshes
90-006292
Marshes, Salt
90-004455
Mortality Rates
90-005621
Nitrite
90-002660
Nursery Areas
90-004455
Pond Culture
90-003097
Population Studies
90-004514
Red Tides
90-004309
Salinity
90-002660
Site Suitability
90-004899
Sportfishing
90-006292
Storage Effects
90-002970
Stress
90-004976
Supplemental Stocking
90-004514
90-006386
Scolopsis temporalis
Calydiscoides nemipteris
90-002458
Parasites/Diseases
90-002458
Trematodes
90-002458
Scomber australasicus
Bacterial Diseases
90-004116
Goussia auxidis
90-004116
Parasites/Diseases
90-004116
Scomber japonicus
Abundance/Factors of
90-000578
90-000584
Acoustical Attractants
90-002755
Decomposition
90-006749
El Nino
90-002798

...CONTINUED...
Scomber japonicus
Electrophoresis
90-001914
Enzymes
90-001906
90-001914
Fish Aggregation Devices
90-002755
Fish as Food
90-002969
Fish Freshness Testing
90-006749
Fish Preservation
90-004842
Food Technology
90-002969
Foods/Feeding
90-003937
Harvest
90-004728
Mammal Predation
90-005868
Management/Research--Marine
90-000578
90-000584
90-004728
Maturation
90-000590
Musculature
90-001914
Nervous System
90-001906
pH
90-001906
Proteins
90-003604
Recruitment
90-002798
Reproduction
90-000590
Spawning
90-000590
Storage Effects
90-002962
90-004842
90-006743
90-006751
Swimming Performance
90-001906
Upwelling
90-000578
90-000584
Scomber japonicus colias
Caligus pelamydis
90-004209
Clavellisa scombri
90-004209
Ectoparasites
90-004209
Kuhnia scombri
90-004209
Parasites/Diseases
90-004209
Parasitic Copepods
90-004209
Trematodes
90-004209
Scomber japonicus marplatensis
Coexistence
90-004755
Distribution/Seasonal
90-004755
Scomber japonicus peruanus
Recruitment
90-005657
Scomber scombrus
Age/Growth
90-000658
90-002242
90-004792
Biomass
90-004813
Caligus pelamydis
90-004209
Carbamates
90-006136
Cestodes
90-004496
Clavellisa scombri
90-004209
Cytology
90-001661
Diagnostic Techniques
90-002417
Early Development
90-003294
Ectoparasites
90-004209
Eggs
90-001661
Enzymes
90-006136
Fatty Acids
90-003294
Fecundity
90-003360
Food Supply
90-000658
Foods/Feeding
90-002242
90-003294
Grubea cochlear
90-004230
Haematractidium scombri
90-002417
Hematology
90-005384
Hooking/Handling Stress
90-005384
Immune Response
90-002417
Kuhnia scombri
90-004209
90-004230
Kuhnia sprostonae
90-004230
Management/Research--Marine
90-004792
90-004813
Marking/Tagging
90-004496
Maturation
90-000658
Mortality Factors
90-002242
Mortality Rates
90-004591
Nursery Areas
90-004697
Nutrition
90-003294
Organophosphates
90-006136

...CONTINUED...
Scomber scombrus
Parasites/Diseases
90-002417
90-004209
90-004230
90-004496
Parasitic Copepods
90-004209
Parasitic Tagging
90-004496
Pesticides
90-006136
Protozoan Diseases
90-002417
Reproduction
90-001661
Stock Assessment
90-004792
Stress
90-005384
Survival
90-002242
90-003294
Temperature
90-000658
Trematodes
90-004209
90-004230
Year Class Strength
90-004792
Scomberesox saurus scombroides
Bird Predation
90-000627
Predator/Prey Relationships
90-000627
Scomberoides commersonianus
Biosorption
90-002462
Catch Per Unit Effort
90-004787
Distribution/Seasonal
90-004787
Management/Research--Marine
90-004787
Public Health Problems
90-002462
Trace Metals
90-002462
Scomberomorus brasiliensis
Age/Growth
90-003998
Length Frequencies
90-003998
Otoliths
90-003998
Scomberomorus cavalla
Age/Growth
90-005640
90-005797
Bioaccumulation
90-004337
Biological Indicators
90-004337
Ciguatera
90-000921
Commercial Fishing
90-004490
Distribution/Seasonal
90-005732
Early Development
90-005797
...CONTINUED...
Scomberomorus cavalla
Heavy Metals
90-004337
Ichthyotoxin
90-000921
Larval Drift
90-005732
Length-Weight Relationships
90-003982
Life History/General
90-005640
Management/Research--Marine
90-004490
90-004806
Maximum Sustainable Yield
90-003982
Nets/Drift Nets
90-004490
Nets/Gill Nets
90-004490
Otoliths
90-004337
Population Studies
90-004806
Reproduction
90-005640
Spawning
90-005732
Stock Assessment
90-003982
Scomberomorus commerson
Catch Per Unit Effort
90-004787
Distribution/Seasonal
90-004787
Management/Research--Marine
90-004787
Scomberomorus maculatus
Age/Growth
90-005797
Distribution/Geographical
90-005840
Early Development
90-005797
Length-Weight Relationships
90-003982
Management/Research--Marine
90-004806
Maximum Sustainable Yield
90-003982
Population Studies
90-004806
Stock Assessment
90-003982
Scomberomorus niphonius
Maturation
90-001884
Reproductive System
90-001884
Spawning
90-001884
Scomberomorus regalis
Length-Weight Relationships
90-003982
Maximum Sustainable Yield
90-003982
Stock Assessment
90-003982
Scombridae
Abundance/Factors of
90-001379

...CONTINUED...
Scombridae
Economic Value
90-002929
Exploitation Rates
90-002929
Fisherman/Angler Surveys
90-006344
Foods/Feeding
90-000645
Harvest
90-004477
Management/Research--Marine
90-001379
90-002929
90-004477
90-006344
Molluscs
90-000645
Predator/Prey Relationships
90-000645
Production
90-002929
Recreational Benefits
90-006344
Social Values
90-006344
Upwelling
90-001379
Scopelogadus beanii
Foods/Feeding
90-000495
Scopelogadus mizolepis bispinosus
Fecundity
90-003867
Length-Weight Relationships
90-003867
Osteology
90-003628
Predator/Prey Relationships
90-003628
Reproduction
90-003867
Species Identification
90-003628
Scophthalmus aquosus
Cadmium
90-006059
Copper
90-006059
Foods/Feeding
90-005787
Heavy Metals
90-006059
Hematology
90-006059
Mercury
90-006059
Season
90-006059
Scophthalmus maximus
Aeromonas salmonicida
90-001534
Age/Growth
90-004004
Bacteria
90-001534
90-001564
Bacterial Diseases
90-001534
90-002366
90-005927
...CONTINUED...
Scophthalmus maximus
Bacterial Diseases
90-005938
Bacterial Gill Disease
90-005938
Chloride Cells
90-001720
Condition Factors
90-003491
Culture/Propagation
90-000105
90-000110
90-001534
90-001564
90-002366
90-005022
90-005033
90-005927
90-006019
Cytology
90-001720
Enzymes
90-000267
Epidermal Lesions
90-006019
Epidermis
90-000875
Fatty Acids
90-000397
Feeding Experiments
90-000110
Feeds
90-000105
90-005022
Foods/Feeding
90-000110
Forage Production
90-005022
Histology
90-000875
Invertebrate Forage
90-001564
90-005022
90-005033
Larvae
90-000105
90-000110
90-001564
90-005022
90-005033
Light
90-000875
Lipid Metabolism
90-000397
Medication In Diets
90-005927
Metabolism
90-000397
90-003491
Mitochondria
90-001720
Neoplasms
90-006019
Nutrition
90-000110
90-003491
90-005033
Osmoregulation
90-001720
Otolith Preparation
90-004004

...CONTINUED...
Scophthalmus maximus
Parasites/Diseases
90-001534
90-002366
90-005927
90-005938
90-006019
Protein Metabolism
90-000110
90-000267
Pseudomonas fluorescens
90-001534
Radiation
90-000875
Rotifers
90-005022
Tank Culture
90-001534
Treatment
90-002366
Trophic Relationships
90-001564
Vaccination
90-005927
Vibrio
90-002366
Vibrio anguillarum
90-001534
90-005927
Viral Diseases
90-002366
Vitamins
90-000105
Scophthalmus rhombus
Age/Growth
90-004004
Bothriocephalus
90-006038
Cestodes
90-006038
Isozymes
90-003625
Otolith Preparation
90-004004
Parasites/Diseases
90-006038
Population Genetics
90-003625
Scorpaena guttata
Cadmium
90-004314
90-004322
Copper
90-004322
Enzymes
90-001906
Heavy Metals
90-004314
90-004322
Nervous System
90-001906
pH
90-001906
Swimming Performance
90-001906
Zinc
90-004322
Scorpaenichthys marmoratus
Aeromonas hydrophila
90-004128
Aeromonas salmonicida
90-004128
...CONTINUED...
Scorpaenichthys marmoratus
Bacterial Diseases
90-004128
Immune Response
90-004128
Parasites/Diseases
90-004128
Scorpaenidae
Aquariums
90-003145
Culture/Propagation
90-003145
Life History/General
90-003145
Scorpaenodes immaculatus
New Species
90-005889
Scyliorhinus caniculus
Bioenergetics
90-005222
Bombesin
90-000406
Brain
90-000404
90-000405
90-000406
90-003871
Cadmium
90-002614
Cholesterol
90-003382
Cytology
90-001724
Eggs
90-005222
Embryology
90-005222
Endocrinology
90-000251
90-000404
90-003871
Heavy Metals
90-002614
Hematology
90-003382
Hormones
90-000251
90-000404
90-000405
Maturation
90-003382
Nervous System
90-000405
90-001942
90-005177
Osmoregulation
90-005177
Oxygen
90-005222
Peptides
90-000404
Pituitary Gland
90-000251
90-000405
Reproductive Cycle
90-000251
Reproductive System
90-003871
Reticulo-Endothelial System
90-001724
Spleen
90-001724

Scyliorhinus stellaris
Chromosomes
90-000471
Digestive System
90-000246
90-000389
Genetic Markers
90-000471
Heart
90-000213
Karyotypes
90-000471
Peptides
90-000246
90-000389
Serotonin
90-000389
Scytalina cerdale
Distribution/Geographical
90-005636
Habitat Selection
90-005636
Recruitment
90-005636
Sebastes
Distribution/Geographical
90-004797
Electrophoresis
90-003471
Fish Lists/Keys
90-004028
Jurisdiction
90-006721
Mammal Predation
90-005868
Management/Research--Marine
90-006721
Muscle Proteins
90-003471
Population Studies
90-006721
Sebastes atrovirens
Habitat Selection
90-006701
Kelp Forests
90-006701
Sebastes auriculatus
Artificial Reefs
90-005549
Bays
90-005549
Commercial Fishing
90-000566
Economic Value
90-000566
Habitat Selection
90-005548
90-005549
Life History/General
90-000566
Management/Research--Marine
90-005549
Movements
90-005549
Orientation/Homing
90-005549
Sportfishing
90-000566
Sebastes caurinus
Artificial Reefs
90-005549

...CONTINUED...
Sebastes caurinus
Bays
90-005549
Commercial Fishing
90-000566
Economic Value
90-000566
Fecundity
90-004586
Habitat Selection
90-005548
90-005549
Length-Weight Relationships
90-004586
Life History/General
90-000566
Management/Research--Marine
90-005549
Movements
90-005549
Orientation/Homing
90-005549
Sportfishing
90-000566
Sebastes chlorostictus
Life History/General
90-003821
Sebastes chrysomelas
Foods/Feeding
90-003755
Sebastes constellatus
Life History/General
90-003821
Sebastes dalli
Life History/General
90-003821
Sebastes elongatus
Life History/General
90-003821
Sebastes ensifer
Life History/General
90-003821
Sebastes entomelas
Life History/General
90-003821
Sebastes fasciatus
Age/Growth
90-005715
Distribution/Seasonal
90-003898
Maturation
90-005715
Nursery Areas
90-004697
Sebastes flavidus
Life History/General
90-003821
Sebastes goodei
Life History/General
90-003821
Sebastes hopkinsi
Life History/General
90-003821
Sebastes jordani
Fish Kills
90-000865
Predator/Prey Relationships
90-000865
Sebastes levis
Life History/General
90-003821

Sebastes maliger
Artificial Reefs
90-005549
Bays
90-005549
Fecundity
90-004586
Habitat Selection
90-005548
90-005549
Length-Weight Relationships
90-004586
Management/Research--Marine
90-005549
Movements
90-005549
Orientation/Homing
90-005549
Sebastes marinus
Electrophoresis
90-000460
Foods/Feeding
90-005786
Predator/Prey Relationships
90-003978
Species Identification
90-000460
Stock Identification
90-000460
Sebastes melanops
Acoustical Methods
90-005652
Commercial Fishing
90-000566
Economic Value
90-000566
Gill Parasites
90-006045
Life History/General
90-000566
Management/Research--Marine
90-005652
Parasites/Diseases
90-006045
Sportfishing
90-000566
Stock Assessment
90-005652
Trematodes
90-006045
Sebastes melanostomus
Life History/General
90-003821
Sebastes mentella
Age/Growth
90-002717
Distribution/Seasonal
90-003898
Electrophoresis
90-000460
Marking/Tagging
90-002717
Otoliths
90-002717
Predator/Prey Relationships
90-003978
Species Identification
90-000460
Stock Identification
90-000460
Sebastes miniatus
Bile
90-003584

...CONTINUED...
Sebastes miniatus
Enzymes
90-003584
Life History/General
90-003821
Liver
90-003584
Sebastes ovalis
Distribution/Geographical
90-000690
Life History/General
90-003821
Sebastes paucispinis
Life History/General
90-003821
Sebastes pinniger
Bile
90-003584
Enzymes
90-003584
Liver
90-003584
Sebastes rosaceus
Life History/General
90-003821
Sebastes rosenblatti
Life History/General
90-003821
Sebastes rufus
Life History/General
90-003821
Sebastes saxicola
Life History/General
90-003821
Sebastes schlegeli
Bacterial Flora
90-000393
90-005388
Digestive System
90-000393
90-005388
Early Development
90-000393
90-005388
Sebastes semicinctus
Life History/General
90-003821
Sebastes viviparus
Electrophoresis
90-000460
Species Identification
90-000460
Stock Identification
90-000460
Sebastiscus marmoratus
Appetite Stimulants
90-003129
Culture/Propagation
90-003129
Feeding Experiments
90-003129
Sebastolobus
Fish Lists/Keys
90-004028
Sebastolobus alascanus
Enzymes
90-001906
Nervous System
90-001906
pH
90-001906

...CONTINUED...
Sebastolobus alascanus
Swimming Performance
90-001906
Selar crumenophthalmus
Catch Per Unit Effort
90-004787
Distribution/Seasonal
90-004787
Management/Research--Marine
90-004787
Selene
Foods/Feeding
90-003937
Semicossyphus pulcher
Age/Growth
90-005600
Islands
90-005600
Maturation
90-005600
Sex Reversal
90-005600
Variation Studies
90-005600
Zoogeography
90-005600
Semotilus atromaculatus
Acid Mine Water
90-000812
Activity Patterns
90-000509
Coexistence
90-003779
Cryptobia cataractae
90-005966
Habitat Evaluation
90-002774
HSI
90-002774
Management/Research--Rivers and Streams
90-000812
90-002774
Modeling
90-002774
Morphology
90-001690
Nests/Nesting
90-000506
90-003779
Parasites/Diseases
90-005966
Pollution
90-000812
Prairie Streams
90-002774
Protozoan Diseases
90-005966
Sexual Dimorphism
90-000506
Taxonomy
90-001690
Semotilus corporalis
Nests/Nesting
90-000506
Sexual Dimorphism
90-000506
Semotilus thoreauianus
Morphology
90-001690
Taxonomy
90-001690
Seriola dumerili
Ciguatera
90-000921
Fish as Food
90-006740
Ichthyotoxin
90-000921
Public Health Problems
90-006740
Seriola hippos
Commercial Fishing
90-001392
Seriola lalandei
Coexistence
90-004755
Culture/Propagation
90-004953
Distribution/Seasonal
90-004755
Economics
90-004953
Hatchery/Wild Populations
90-004953
Seriola quinqueradiata
Abnormalities
90-004227
Abundance/Factors of
90-003852
Age/Growth
90-005034
Antibodies
90-000773
Appetite Stimulants
90-000102
90-000281
Bacterial Diseases
90-000744
90-000745
90-000747
90-002386
90-002399
90-002404
90-004117
90-004118
90-004120
90-004133
90-005914
Bactericides
90-002386
90-004114
90-004118
90-004120
90-004133
Behavior
90-002756
Bile
90-005367
90-006004
Cage Culture
90-000773
Cardiovascular System
90-004349
Catch Per Unit Effort
90-003852
Coloration
90-004227
Culture/Propagation
90-000102
90-000773
90-002399
90-005034

...CONTINUED...
Seriola quinqueradiata
Culture/Propagation
90-005914
Diagnostic Techniques
90-002404
Disease-Free Culture
90-002399
Distribution/Seasonal
90-003907
Erythromycin
90-004118
Feeding Attractants
90-005034
Flumequine
90-004133
Food Technology
90-001424
Foods/Feeding
90-000281
Green Liver
90-006004
Immune Response
90-000744
90-006004
Immunoglobulins
90-005386
Ion Transport
90-004349
Liver
90-005367
Management/Research--Marine
90-003852
90-003907
Marking/Tagging
90-002756
Migration
90-003907
Mycobacterium
90-002386
90-004118
Nets/Set Nets
90-002756
90-003852
Oxolinic Acid
90-004114
90-004115
Parasites/Diseases
90-000744
90-000745
90-000747
90-000773
90-002386
90-002399
90-002404
90-004114
90-004115
90-004117
90-004118
90-004120
90-004133
90-005914
90-006004
Pasteurella piscicida
90-000744
90-000745
90-000747
90-002399
90-002404
90-004120
Peptides
90-000281

...CONTINUED...
Seriola quinqueradiata
Pigments
90-005367
90-006004
Pollution
90-004227
Population Studies
90-003907
Pseudotuberculosis
90-002399
90-004133
Red Tides
90-004349
Respiration
90-004349
Storage Effects
90-004837
90-006746
Streptococcus
90-004117
90-005914
Streptomycin
90-004118
Taste and Odor Problems
90-001424
90-004837
Tocopherols
90-005367
Treatment
90-000747
90-002386
90-004118
90-004120
90-004133
90-005914
Vaccination
90-000747
Viral Diseases
90-000773
Yellowtail Ascites Virus
90-000773
Seriphus politus
Abundance/Factors of
90-002775
Foods/Feeding
90-003972
Larval Behavior
90-003972
Larval Drift
90-002775
Modeling
90-002775
Serranidae
Condition Factors
90-000195
Culture/Propagation
90-005029
Diagnostic Techniques
90-002450
Diets
90-005029
Foods/Feeding
90-005029
Length-Weight Relationships
90-000195
Parasites/Diseases
90-002450
90-002451
Pearsonellum corventum
90-002450
90-002451

...CONTINUED...
Serranidae
Trematodes
90-002450
90-002451
Serranus baldwini
Hermaphroditism
90-003781
Polygyny
90-003781
Social Behavior
90-003781
Spawning
90-003781
Serranus fasciatus
Hermaphroditism
90-003781
Polygyny
90-003781
Social Behavior
90-003781
Spawning
90-003781
Serranus scriba
Biological Monitoring
90-004285
Detoxification
90-004285
Enzymes
90-004285
Polycyclic Aromatic Hydrocarbons
90-004285
Serrasalmus gibbus
Aquariums
90-005070
Culture/Propagation
90-005070
Spawning
90-005070
Serrasalmus irritans
Foods/Feeding
90-000657
Serrasalmus marginatus
Behavior
90-005635
Life History/General
90-005635
Serrasalmus medini
Foods/Feeding
90-000657
Serrasalmus nattereri
Behavior
90-005635
Life History/General
90-005635
Serrasalmus rhombeus
Foods/Feeding
90-000657
Serrasalmus spilopleura
Behavior
90-005635
Life History/General
90-005635
Sicydium japonicum
Larval Drift
90-005734
Sicyopus jonklaasi
Life History/General
90-003826
Morphology
90-003826
Sierrathrissa leonensis
Biochemical Composition
90-000253
Siganus argenteus
Commercial Fishing
90-001363
Foods/Feeding
90-003966
Harvest
90-001363
Kelp
90-003966
Lunar Influences
90-001363
Management/Research--Marine
90-001363
Season
90-001363
Toxic Algae
90-003966
Siganus canaliculatus
Culture/Propagation
90-005048
Feeding Experiments
90-005048
Net-Pen Culture
90-005048
Siganus fuscescens
Commercial Fishing
90-001363
Harvest
90-001363
Lunar Influences
90-001363
Management/Research--Marine
90-001363
Season
90-001363
Siganus guttatus
Age/Growth
90-003121
Brackishwater Culture
90-003067
90-003092
Culture/Propagation
90-003067
90-003092
90-003121
90-005067
Diets
90-003121
Egg Quality
90-003092
Embryology
90-003092
Feeds
90-003067
Hatching
90-003092
Induced Maturation
90-003092
Nutrition
90-003067
90-003121
Production
90-003067
Protein Metabolism
90-003121
Salinity
90-003092
Survival
90-005067
Transportation
90-005067

Siganus luridus
Management/Research--Marine
90-001409
Reef Fish Communities
90-001409
Siganus rivulatus
Bacterial Diseases
90-005944
Culture/Propagation
90-005944
Management/Research--Marine
90-001409
Parasites/Diseases
90-005944
Pseudomonas putrefaciens
90-005944
Reef Fish Communities
90-001409
Siganus spinus
Commercial Fishing
90-001363
Harvest
90-001363
Lunar Influences
90-001363
Management/Research--Marine
90-001363
Season
90-001363
Siganus sutor
Maturation
90-005720
Season
90-005720
Spawning
90-005720
Tropics
90-005720
Sillago argentifasciata
Parasites/Diseases
90-004222
Trematodes
90-004222
Sillago bassensis
Fish as Food
90-006735
Sillago chondropus
Parasites/Diseases
90-004222
Trematodes
90-004222
Sillago indica
Parasites/Diseases
90-004222
Trematodes
90-004222
Sillago japonica
Lymphocystis
90-002433
Parasites/Diseases
90-002433
Reproductive System
90-005313
Steroids
90-005313
Sillago lutea
Parasites/Diseases
90-004222
Trematodes
90-004222
Sillago sihama
Biological Monitoring
90-006054

...CONTINUED...
Sillago sihama
Heavy Metals
90-006054
Parasites/Diseases
90-004222
Trematodes
90-004222
Sillago soringa
Parasites/Diseases
90-004222
Trematodes
90-004222
Siluriformes
Cestodes
90-006037
Distribution/Geographical
90-002302
Nematodes
90-006037
Parasites/Diseases
90-006037
Taxonomy
90-002302
Silurus
Evolution
90-000432
Genetics
90-000432
Silurus glanis
Age/Growth
90-004990
Bioenergetics
90-006484
Brood Stock
90-004990
Commercial Fishing
90-004680
Culture/Propagation
90-004165
90-004990
Endocrinology
90-005232
Exotic Species/Denmark
90-000995
Exotic Species/Italy
90-004500
Hormones
90-005232
Iridoviridae
90-004165
Management/Research--Ponds
90-006484
Maturation
90-005232
Parasites/Diseases
90-004165
Predator/Prey Relationships
90-006484
Recruitment
90-006484
Stocking/Introductions
90-004500
Survival
90-004990
Trophic Relationships
90-006484
Viral Diseases
90-004165
Siniperca scherzeri
Carotenoids
90-003476

...CONTINUED...
Siniperca scherzeri
Pigments
90-003476
Solea impar
Age/Growth
90-003983
Solea lascaris
Age/Growth
90-003983
Meristic Studies
90-004066
Taxonomy
90-004066
Solea senegalensis
Age/Growth
90-004003
Meristic Studies
90-004066
Otoliths
90-004003
Taxonomy
90-004066
Solea solea
Abundance/Factors of
90-004710
Age/Growth
90-004004
Algal Blooms
90-004710
Bacterial Diseases
90-005918
Black-Spot Disease
90-005918
Enzymes
90-000267
Epidermal Lesions
90-005918
Fecundity
90-003360
Flexibacter maritimus
90-005918
Fungal Diseases
90-004139
Management/Research--Estuaries
90-004710
Management/Research--Lakes
90-003896
Meristic Studies
90-004066
Mycoplasma
90-004139
Nursery Areas
90-004710
Otolith Preparation
90-004004
Parasites/Diseases
90-004139
90-005918
Protein Metabolism
90-000267
Reproductive Cycle
90-003896
Spawning
90-003896
Stocking/Introductions
90-003896
Taxonomy
90-004066
Solea theophilus
Biological Indicators
90-004777

...CONTINUED...
Solea theophilus
Length-Weight Relationships
90-004777
Management/Research--Marine
90-004777
Population Studies
90-004777
Solea vulgaris
Age/Growth
90-003983
Behavior
90-000903
Foods/Feeding
90-000903
Heavy Metals
90-000903
Isozymes
90-003625
Mercury
90-000903
Pollution
90-000903
Population Genetics
90-003625
Spaniblennius
New Genus
90-000704
Spaniblennius clandestinus
Morphology
90-000704
New Species
90-000704
Taxonomy
90-000704
Sparidae
Courtship
90-005695
Eyes
90-000228
Hermaphroditism
90-005695
Proteins
90-000228
Reproduction
90-005695
Sex Reversal
90-005695
Variation Studies
90-005695
Sparisoma cretense
Age/Growth
90-003831
Life History/General
90-003831
Scales
90-003831
Sparisoma viride
Endocrinology
90-005196
Reproduction
90-005196
Sex Reversal
90-005196
Spawning
90-005196
Sparus auratus
Amino Acids
90-000316
Brain
90-001838
Brood Stock
90-005000

...CONTINUED...
Sparus auratus
Condition Factors
90-003381
Culture/Propagation
90-001538
90-001802
90-002029
90-003100
90-003641
90-005000
90-005424
Digestive System
90-000316
DNA
90-005000
Early Development
90-000303
90-001802
90-003621
Endocrinology
90-000214
90-001838
90-005259
90-005423
Enzymes
90-002007
Exploitation Rates
90-004479
Eyes
90-000228
Foods/Feeding
90-000303
Genetics
90-005000
Gills
90-002007
Gonads
90-003253
Growth Hormone
90-000214
Hermaphroditism
90-003253
Histology
90-001838
Hormones
90-001838
90-005259
90-005423
90-005424
Hybridization
90-003641
Induced Maturation
90-002029
90-005424
Ion Transport
90-002007
Isozymes
90-003621
Kidneys
90-005423
Lagoons
90-004479
Larvae
90-001802
Lipid Metabolism
90-000303
Liver
90-003381
90-005423
Management/Research--Estuaries
90-004479

...CONTINUED...
Sparus auratus
Maturation
90-003253
Nutrient Control
90-001538
Nutrients
90-001538
Nutrition
90-003381
Osmoregulation
90-002007
Pancreatic Islets
90-000214
Parasites/Diseases
90-004147
Phosphate
90-003381
Pituitary Gland
90-001838
90-005259
90-005423
Pleistophora senegalensis
90-004147
Pond Culture
90-001538
90-003100
Protozoan Diseases
90-004147
Recirculating Systems
90-001538
Reproductive System
90-003253
90-005259
Salt Mining
90-003100
Site Suitability
90-003100
Starvation
90-000303
Swimbladder
90-001802
Variation Studies
90-003621
Vitellogenin
90-003253
Sparus macrocephalus
Cadmium
90-000900
Heavy Metals
90-000900
Kidneys
90-000900
Xenobiotics
90-000900
Sparus pagrus
Eyes
90-000228
Sparus sarba
Eyes
90-003220
Pigments
90-003220
Sphaerichthys osphremenoides
Aquariums
90-005079
Courtship
90-005079
Culture/Propagation
90-005079
Sphoeroides cutaneus
Distribution/Geographical
90-005838

Sphoeroides richei
Benthos
90-001640
Sphyraena argentea
Predator/Prey Relationships
90-002266
Sphyraena barracuda
Ciguatera
90-000921
Ichthyotoxin
90-000921
Sphyrna
Electrophoresis
90-002059
Taxonomy
90-002059
Sphyrna lewini
Abundance/Factors of
90-000610
Age/Growth
90-003981
Distribution/Seasonal
90-000610
Excretory System
90-000180
Foods/Feeding
90-000610
Histology
90-000180
Kidneys
90-000180
Osteology
90-003981
Sphyrna mokarran
Foods/Feeding
90-005778
Predator/Prey Relationships
90-005778
Sphyrna zygaena
Abundance/Factors of
90-000610
Distribution/Seasonal
90-000610
Foods/Feeding
90-000610
Hematology
90-003347
Stress
90-003347
Spirinchus thaleichthys
Competition
90-004593
Predator/Prey Relationships
90-005745
Season
90-005745
Spondyliosoma cantharus
Eyes
90-000228
Spondyliosoma emarginatum
Early Development
90-001649
Spratelloides
Baitfish
90-002910
Exploitation Rates
90-002910
Lagoons
90-002910
Management/Research--Marine
90-002910

...CONTINUED...
Spratelloides
Predator/Prey Relationships
90-002910
Subsistence Fishing
90-002910
Trophic Relationships
90-002910
Spratelloides delicatulus
Foods/Feeding
90-005767
Spratelloides gracilis
Foods/Feeding
90-005767
Spratelloides lewisi
Foods/Feeding
90-005767
Sprattus
Length Frequencies
90-006452
Sprattus sprattus
Abundance/Factors of
90-004260
Acoustical Methods
90-006765
Biomass
90-004813
Escape Behavior
90-003734
Eutrophication
90-004260
Harvest
90-004260
Hypoxia
90-004260
Life History/General
90-003800
90-005592
Management/Research--Estuaries
90-004698
Management/Research--Marine
90-003800
90-004260
90-004813
Mortality Rates
90-004591
Nursery Areas
90-004698
Overwintering
90-004698
Pollution
90-004260
Population Studies
90-003800
Predator/Prey Relationships
90-003734
Sense Organs
90-003734
Squalus
Gonads
90-001807
Steroids
90-001807
Squalus acanthias
Adenosine
90-003272
90-003361
Anesthetics
90-003358
90-004098
Antibiotics
90-003606

...CONTINUED...
Squalus acanthias
Bombesin
90-005378
Brain
90-003871
Cadmium
90-003363
90-003395
90-004331
90-004332
90-005238
90-006167
Catecholamines
90-003513
Cell Culture
90-005302
Chloride Cells
90-005175
Cytochrome
90-000219
90-003564
Cytology
90-003455
90-003498
90-005421
90-005422
90-006241
Diagnostic Techniques
90-004098
Digestive System
90-005322
Distribution/Seasonal
90-004741
Electrophysiology
90-003497
90-005331
Endocrinology
90-000238
90-000239
90-003287
90-003308
90-003342
90-003388
90-003557
90-003564
90-003871
90-005210
90-005235
90-005382
Enzymes
90-000219
90-001763
90-003308
90-003440
90-003608
Excretory System
90-000180
90-005175
90-005183
90-005378
90-005380
90-006212
Exploitation Rates
90-004741
Eyes
90-003497
90-003498
90-003601
90-003602
90-003603
Glucose
90-003297

...CONTINUED...
Squalus acanthias
Glucose
90-005185
Gonads
90-001763
90-003287
90-003342
90-005210
90-005226
Heart
90-003361
90-003363
90-003365
90-003455
90-003560
90-004331
90-004332
90-005227
90-005235
90-005236
90-005238
90-005325
90-005383
Heavy Metals
90-004331
90-004332
90-005236
90-005238
90-005394
90-006155
90-006167
90-006212
90-006241
Hematology
90-003513
90-005341
Histology
90-000180
90-005383
Hormones
90-000238
90-003308
90-003422
90-005237
Hypoxia
90-003513
Immune Response
90-003606
Ion Transport
90-003297
90-003497
90-003498
90-003601
90-003603
90-005183
90-005227
90-005245
90-005302
90-005325
90-005331
90-005341
90-005411
Kidneys
90-000180
90-003297
90-005183
90-005251
90-005322
Lipid Metabolism
90-003275
Liver
90-003275

...CONTINUED...
Squalus acanthias
Management/Research--Marine
90-004741
Mercury
90-006155
90-006212
90-006241
Metabolism
90-003564
90-005185
Mitochondria
90-003275
90-003455
90-003557
Muscle Proteins
90-003541
Musculature
90-003365
Nervous System
90-003394
90-003456
90-003551
90-005331
Nickel
90-003363
90-004331
90-005394
Ormethoprim
90-003439
Osmoregulation
90-003297
90-003359
90-003395
90-003422
90-003440
90-003455
90-003513
90-003560
90-003602
90-003607
90-003609
90-005175
90-005195
90-005237
90-005380
Parasites/Diseases
90-004098
Peptides
90-003359
90-003394
90-003395
90-003422
90-003594
90-005229
90-005235
90-005237
90-005378
90-005382
90-005394
pH
90-003513
pH Regulation
90-005341
Pharmacology
90-003606
Phosphate
90-003359
90-005229
Photoreception
90-000167
Pigments
90-003603

...CONTINUED...
Squalus acanthias
Pigments
90-005411
Potassium
90-003498
90-005302
90-005421
Rectal Gland
90-003272
90-003308
90-003359
90-003388
90-003394
90-003422
90-003440
90-003456
90-003551
90-003557
90-003564
90-003594
90-003607
90-003608
90-003609
90-005175
90-005195
90-005229
90-005245
90-005246
90-005302
90-005322
90-005378
90-005394
90-005421
90-005422
90-006155
90-006167
90-006212
90-006241
Reproduction
90-000238
90-000239
90-002194
Reproductive System
90-003871
90-005226
90-005382
RNA
90-005322
Sodium
90-003497
90-005183
90-005302
90-005341
Sperm
90-000238
90-003342
90-005210
90-005226
Steroids
90-003287
90-003342
90-005210
90-005382
Stress
90-003388
Taurine
90-003388
90-003609
90-005422
Treatment
90-004098

...CONTINUED...
Squalus acanthias
Urea
90-005251
Vision
90-000167
90-005331
Squatina californica
Abundance/Factors of
90-000610
Distribution/Seasonal
90-000610
Foods/Feeding
90-000610
Squatina oculata
Early Development
90-005696
Eggs
90-005696
Reproduction
90-005696
Vitellogenin
90-005696
Squatina squatina
Early Development
90-005696
Eggs
90-005696
Reproduction
90-005696
Vitellogenin
90-005696
Stenodus leucichthys
Cell Culture
90-005903
Enzymes
90-003682
Parasites/Diseases
90-005903
Variation Studies
90-003682
Viral Diseases
90-005903
Stenolicmus
New Genus
90-005878
Stenolicmus sarmientoi
New Species
90-005878
Stephanolepis cirrhifer
Exercise
90-002018
Spleen
90-002018
Sternopygus macrurus
Cytochrome
90-003463
Cytology
90-003463
Electric Fish
90-003463
Enzymes
90-003463
Stichaeidae
Recruitment
90-002940
Stichaeus grigorjewi
Early Development
90-003450
Embryology
90-003450
Stizostedion canadense
Age/Growth
90-004960
...CONTINUED...
Stizostedion canadense
Age/Growth
90-004981
90-006653
Allozymes
90-003626
Culture/Propagation
90-004960
90-004981
DNA
90-003626
90-005498
Evolution
90-003626
Fingerling Production
90-004981
Foods/Feeding
90-006653
Hybridization
90-004960
90-004981
90-006653
Management/Research--Reservoirs
90-006653
Mitochondria
90-003626
Rearing Density
90-004981
Reproduction
90-004960
Stocking/Introductions
90-006653
Survival
90-004960
Variation Studies
90-003626
Zoogeography
90-003626
Stizostedion lucioperca
Abnormalities
90-001694
Acidification
90-004712
Allozymes
90-003626
Anguillicola crassus
90-004202
Bioenergetics
90-006484
Digestive System
90-000305
90-001694
DNA
90-003626
Early Development
90-001694
Enzymes
90-000305
Evolution
90-003626
Exotic Species/Denmark
90-000995
Fish Control/Removal
90-006528
90-006544
Habitat Selection
90-004619
Management/Research--General
90-004423
Management/Research--Lakes
90-004618

...CONTINUED...
Stizostedion lucioperca
Management/Research--Lakes
90-004619
90-006528
90-006544
Management/Research--Ponds
90-006484
Management/Research--Reservoirs
90-006659
Mitochondria
90-003626
Nematodes
90-004202
Parasites/Diseases
90-004100
90-004202
Playas
90-004618
Population Studies
90-004619
Predator/Prey Relationships
90-006484
Recruitment
90-004712
90-006484
90-006659
Season
90-000305
Stocking/Introductions
90-006519
90-006530
Trophic Relationships
90-004618
90-006484
90-006519
90-006528
90-006530
90-006544
90-006659
Variation Studies
90-003626
Water Level Fluctuations
90-006659
Water Quality
90-006659
Zoogeography
90-003626
Stizostedion vitreum
Abundance/Factors of
90-002856
Activity Patterns
90-005738
Age/Growth
90-003052
90-004960
90-004981
Allozymes
90-000481
90-003626
Alpine Streams
90-001228
Bioaccumulation
90-006209
Brood Stock
90-003059
Climate
90-006471
Competition
90-004681
Critical Habitat
90-002704

...CONTINUED...
Stizostedion vitreum
Culture/Propagation
90-000044
90-003052
90-003059
90-004960
90-004981
Diets
90-000044
Dioxin
90-006209
Distribution/Seasonal
90-003780
90-005738
DNA
90-000481
90-003626
90-004364
90-005498
Egg Survival
90-001757
Evolution
90-003626
90-005167
Exotic Species
90-004681
Eyes
90-005167
Feeding Experiments
90-003052
90-003059
Fertilization/Soil and Water
90-000044
Fingerling Production
90-004981
Fishing Tournaments
90-002843
Foods/Feeding
90-004681
Forecasting
90-006471
Fry Production
90-003059
Habitat Alterations
90-002704
90-002856
Habitat Selection
90-003780
Histology
90-005167
Hybridization
90-004960
90-004981
Impoundment
90-004681
Interspecies Relationships
90-004592
Length-Weight Relationships
90-006476
Life History/General
90-001228
90-001757
Management/Research--Lakes
90-002843
90-002856
90-004592
90-004608
90-006376
90-006471
90-006516
Management/Research--Reservoirs
90-006652

...CONTINUED...
Stizostedion vitreum
Management/Research--Rivers and Streams
90-001228
90-002704
90-003780
90-004681
Marking/Tagging
90-002704
90-003780
Metabolic Rates
90-005181
Microhabitat
90-003780
Mitochondria
90-003626
Modeling
90-006376
Movements
90-003780
90-005738
Mutagens
90-004364
Navigation Projects
90-002704
Neoplasms
90-006025
Parasites/Diseases
90-006025
Photoperiodism
90-005181
90-005738
Polycyclic Aromatic Hydrocarbons
90-004364
Pond Culture
90-000044
90-003052
Population Genetics
90-000481
Population Studies
90-002856
90-004592
90-006652
Rearing Density
90-003052
90-004981
Recreational Benefits
90-004608
Recruitment
90-001757
Reproduction
90-001757
90-004960
Riparian Habitat
90-001228
Season
90-003780
90-005181
Spawning Channels
90-002704
Spawning Substrates
90-002704
Sportfishing
90-002843
Stocking/Introductions
90-006376
90-006516
90-006652
Stream Improvement/General
90-001228
Survival
90-001757

...CONTINUED...
Stizostedion vitreum
Survival
90-003052
90-004960
90-006376
90-006652
Swimming Performance
90-005181
Tank Culture
90-003059
Telemetry
90-005738
Toxicity Testing
90-006209
Trophic Relationships
90-002856
90-006516
Variation Studies
90-000481
90-003626
Zoogeography
90-003626
Stizostedion vitreum vitreum
Acoustical Methods
90-004861
Age/Growth
90-006653
Allozymes
90-005493
Bioaccumulation
90-002654
90-004326
Bioenergetics
90-003291
Chlorinated Dibenzo-p-Dioxins
90-000878
Culture/Propagation
90-000035
90-003006
Dibenzofuran
90-000878
Diets
90-000035
Digestive System
90-005271
Dioxin
90-000878
Environmental Impacts
90-003005
90-003006
Exploitation Rates
90-006520
Feeds
90-005271
Fertilization/Soil and Water
90-001525
Foods/Feeding
90-006653
Habitat Selection
90-005539
Hatchery/Wild Populations
90-003005
90-003006
Heavy Metals
90-002654
90-004326
Hybridization
90-006653
Invertebrate Forage
90-000035
90-001525

...CONTINUED...
Stizostedion vitreum vitreum
Management/Research--Lakes
90-005493
90-006520
Management/Research--Reservoirs
90-006653
Mercury
90-002654
90-004326
Metabolic Rates
90-003291
Methyl Mercury
90-002654
Movements
90-005539
Neoplasms
90-004179
Oxygen
90-003291
Parasites/Diseases
90-004179
Pond Culture
90-000035
90-001525
Population Studies
90-006520
Predator/Prey Relationships
90-001525
Production
90-001525
Spawning
90-005539
Species Identification
90-004861
Sportfishing
90-006520
Stock Assessment
90-005493
Stocking/Introductions
90-006653
Survival
90-001525
Swimming Performance
90-003291
Temperature
90-003291
Trophic Relationships
90-001525
Viral Diseases
90-004179
Zooplankton
90-000035
Stolephorus
Baitfish
90-002910
Exploitation Rates
90-002910
Lagoons
90-002910
Management/Research--Marine
90-002910
Predator/Prey Relationships
90-002910
Subsistence Fishing
90-002910
Trophic Relationships
90-002910
Stolephorus devisi
Foods/Feeding
90-005767
Stolephorus heterolobus
Foods/Feeding
90-005767
Symphodus cinereus
Helicometra
90-002452
Parasites/Diseases
90-002452
Trematodes
90-002452
Symphodus ocellatus
Anesthetics
90-002590
Aquariums
90-002263
Culture/Propagation
90-002263
Feeding Experiments
90-002263
Foods/Feeding
90-002263
Vision
90-002263
Symphodus rostratus
Anesthetics
90-002590
Symphodus tinca
Evolution
90-005583
Parental Behavior
90-005583
Symphurus atricauda
Olfaction
90-001744
Respiratory System
90-001744
Symphurus seychellensis
Meristic Studies
90-002353
Morphometry
90-002353
Taxonomy
90-002353
Symphysodon aequifasciatus
Aquariums
90-001622
Bacterial Diseases
90-005924
Culture/Propagation
90-001622
Disease-Free Culture
90-001622
Disinfection
90-001622
Mycobacterium fortuitum
90-005924
Ozone
90-001622
Parasites/Diseases
90-001622
90-005924
Synaphobranchus affinis
Distribution/Geographical
90-004023
Synaphobranchus brevidorsalis
Distribution/Geographical
90-004023
Synaphobranchus kaupi
Distribution/Geographical
90-004023
Parasites/Diseases
90-004162
Protozoan Diseases
90-004162

Synaphobranchus oregoni
Distribution/Geographical
90-004023
Synchiropus claudiae
Distribution/Geographical
90-005881
Meristic Studies
90-005881
New Species
90-005881
Synchiropus picturatus
Culture/Propagation
90-003150
Syngnathoides biaculeatus
Aquariums
90-001600
Culture/Propagation
90-003150
Syngnathus
Life History/General
90-000560
Population Studies
90-000560
Syngnathus acus
Ichthyoplankton
90-002904
Management/Research--Estuaries
90-002904
Nursery Areas
90-002904
Syngnathus fuscus
Distribution/Seasonal
90-003913
Life History/General
90-003913
Migration
90-003913
Syngnathus typhle
Parental Behavior
90-005690
Recruitment
90-005690
Reproduction
90-005690
Synodontis
Commercial Fishing
90-004616
Exploitation Rates
90-004616
Management/Research--Lakes
90-004616
Synodontis bastiani
Chromosomes
90-005426
Karyotypes
90-005426
Synodontis budgetti
Chromosomes
90-005426
Karyotypes
90-005426
Synodontis courteti
Chromosomes
90-005426
Karyotypes
90-005426
Synodontis filamentosus
Chromosomes
90-005426
Karyotypes
90-005426
Synodontis ocellifer
Chromosomes
90-005426
Karyotypes
90-005426
Synodontis schall
Chromosomes
90-005426
Fungal Diseases
90-004139
Karyotypes
90-005426
Mycoplasma
90-004139
Parasites/Diseases
90-004139
Synodontis sorex
Chromosomes
90-005426
Karyotypes
90-005426
Synodontis violaceus
Chromosomes
90-005426
Karyotypes
90-005426
Synodus saurus
Distribution/Geographical
90-000675
Tachysurus maculatus
Biological Monitoring
90-006054
Early Development
90-005556
Heavy Metals
90-006054
Parental Behavior
90-005556
Taenionotus triacanthus
Culture/Propagation
90-003150
Talismania bussingi
Morphology
90-002360
New Species
90-002360
Tanakius kitaharai
Age/Growth
90-000674
Morphometry
90-005124
Otoliths
90-000674
Taxonomy
90-005124
Tandanus tandanus
Agricultural Drainage
90-004281
Biological Monitoring
90-004281
Culture/Propagation
90-005971
Endosulfan
90-004281
Ichthyophthirius multifiliis
90-005971
Insecticides
90-004281
Parasites/Diseases
90-005971
Protozoan Diseases
90-005971

...CONTINUED...
Tandanus tandanus
Salinity
90-005971
Treatment
90-005971
Tanichthys albonubes
Aggressive Behavior
90-003770
Competition
90-003770
Intraspecies Relationships
90-003770
Schooling Behavior
90-003770
Taractes asper
Distribution/Geographical
90-003249
Morphometry
90-003249
Taractes rubescens
Distribution/Geographical
90-003249
Morphometry
90-003249
Tatia galaxias
Aquariums
90-005073
Culture/Propagation
90-005073
Spawning
90-005073
Tautoga onitis
Commercial Fishing
90-000531
Life History/General
90-000531
Metabolism
90-003340
Temperature
90-003340
Thermal Tolerance
90-003340
Tautogolabrus adspersus
Commercial Fishing
90-000531
Life History/General
90-000531
Tenualosa toli
Biosorption
90-002462
Public Health Problems
90-002462
Trace Metals
90-002462
Tetrapturus albidus
Foods/Feeding
90-004756
Management/Research--Marine
90-004756
Recreational Benefits
90-004756
Sportfishing
90-004756
Thalassoma bifasciatum
Egg Predation
90-005535
Evolution
90-000523
Hermaphroditism
90-000302
Life History/General
90-000523

...CONTINUED...
Thalassoma bifasciatum
Sex Reversal
90-000302
Social Behavior
90-000523
Thalassoma duperreyi
Aquariums
90-005084
Culture/Propagation
90-005084
Life History/General
90-005084
Reef Fish Communities
90-003889
Sex Reversal
90-003889
Social Behavior
90-003889
Theragra chalcogramma
Abundance/Factors of
90-002309
90-002328
90-002329
90-002331
90-002336
90-002934
90-002961
90-006695
90-006715
Age/Growth
90-001647
90-001688
90-001750
90-002916
90-003600
90-004007
90-005648
90-005804
Baits/Baiting
90-001001
Behavior
90-004525
Bioenergetics
90-001941
90-001979
90-003600
90-005340
Bird Predation
90-002337
Cannibalism
90-002107
90-002330
Catch Per Unit Effort
90-002165
Commercial Fishing
90-001789
90-002225
90-002907
90-002911
90-002916
90-002933
90-002934
90-002937
90-002941
90-002956
90-002960
90-002961
Copepoda
90-001923
Digestive Rate
90-005340

...CONTINUED...
Theragra chalcogramma
Discarded Bycatch
90-004716
Distribution/Factors of
90-002954
Distribution/Geographical
90-002225
90-002306
90-002309
90-002329
90-002336
90-002911
90-002941
Distribution/Seasonal
90-003912
90-005741
Distribution/Vertical
90-002119
90-002227
90-002229
90-005737
Early Development
90-001881
90-001923
90-002119
90-003600
90-004324
90-005648
90-005756
90-005804
Economic Value
90-004716
Economics
90-004491
Egg Collection
90-002328
Egg Drift
90-003912
Egg Size
90-005804
Egg Survival
90-002326
Enzymes
90-003642
Exploitation Rates
90-002937
90-002960
Fatty Acids
90-000344
Fecundity
90-001995
90-002124
90-002328
Fish Behavior
90-001001
Fish Preservation
90-004830
Food Conversion Efficiency
90-001941
Food Supply
90-001923
90-002119
Food Technology
90-001430
90-004830
Foods/Feeding
90-001941
90-002119
90-002249
90-003600
90-005340

...CONTINUED...
Theragra chalcogramma
Foods/Feeding
90-005756
Genetic Markers
90-003642
Groundfish
90-004491
90-004716
Habitat Selection
90-002109
90-002229
Hatching
90-005648
Hooking/Handling Stress
90-004525
Hooks
90-001001
Larvae
90-002309
Larval Behavior
90-002229
Larval Drift
90-003912
90-005737
90-005866
Law of the Sea
90-004491
Laws/Law Enforcement
90-002956
Length-Weight Relationships
90-002734
Life History/General
90-001881
90-001979
90-002136
90-002227
90-002329
90-002337
90-002907
Light
90-002109
90-002119
Lipid Composition
90-000344
Longlines
90-004525
Mammal Predation
90-000581
90-002330
90-002333
90-002934
Management/Research--Marine
90-000581
90-002136
90-002165
90-002906
90-002907
90-002911
90-002916
90-002933
90-002937
90-002941
90-002951
90-002954
90-002956
90-002960
90-002961
90-004491
90-004716
90-006695
90-006715

...CONTINUED...
Theragra chalcogramma
Marketing
90-004491
Marking/Tagging
90-002906
Migration
90-002225
90-002906
Morphology
90-001647
90-002328
Morphometry
90-002916
Mortality Factors
90-002330
Mortality Rates
90-002326
90-005866
Muscle Proteins
90-003474
Nets/Trawls
90-002734
90-002754
Nursery Areas
90-006715
Oil Pollution
90-004324
Otoliths
90-001688
90-001750
90-005648
Parasites/Diseases
90-002906
Phototropism
90-002119
Population Genetics
90-003642
Population Studies
90-000581
90-001789
90-002165
90-002330
90-002786
90-002906
90-002907
90-002933
Power Plants
90-002109
Reproduction
90-001789
90-001979
90-002124
Reproductive System
90-000344
Respiration
90-005418
Roe
90-004716
Scales
90-004007
Season
90-006695
Sex Determination
90-002328
Spawning
90-001979
90-002124
90-002227
Stock Assessment
90-001647
90-002306

...CONTINUED...
Theragra chalcogramma
Stock Assessment
90-002328
90-002331
90-002336
90-002734
90-002754
90-002786
90-002906
90-002907
90-002911
90-002916
90-002934
90-002941
90-002951
90-002954
90-002961
Storage Effects
90-001430
Survival
90-002326
90-005648
Swimming Performance
90-004525
Temperature
90-002119
Temperature Selection
90-002119
Trophic Relationships
90-000581
90-002329
90-002934
Zoogeography
90-001688
Thryssa hamiltoni
Management/Research--Estuaries
90-004694
Population Studies
90-004694
Stock Assessment
90-004694
Thryssa mystax
Management/Research--Estuaries
90-004694
Population Studies
90-004694
Stock Assessment
90-004694
Thunnus alalunga
Bacterial Diseases
90-004116
Coexistence
90-004755
Distribution/Seasonal
90-002984
90-004755
Distribution/Vertical
90-003903
Early Development
90-003975
Foods/Feeding
90-003975
Gonads
90-003254
Goussia auxidis
90-004116
Harvest
90-004728
Histology
90-003254
Larval Behavior
90-003903

...CONTINUED...
Thunnus alalunga
Larval Identification
90-005891
Management/Research--Marine
90-004728
Maturation
90-003254
Parasites/Diseases
90-004116
Predator/Prey Relationships
90-000680
Reproductive System
90-003254
Rhythmicity
90-003903
Satellite Imagery
90-002984
Sperm
90-003254
Thunnus albacares
Abundance/Factors of
90-001057
Bacterial Diseases
90-004116
Coexistence
90-004755
Distribution/Seasonal
90-001057
90-004755
Distribution/Vertical
90-003749
90-004564
90-005531
Exploitation Rates
90-001057
90-004764
90-006447
Fish Aggregation Devices
90-005531
Fishing Gear
90-004564
Gear Selectivity
90-004564
Goussia auxidis
90-004116
Growth Hormone
90-005287
Habitat Selection
90-003749
Larval Identification
90-005891
Longlines
90-004564
Management/Research--Marine
90-001057
90-004764
90-005531
Marking/Tagging
90-005531
Maximum Sustainable Yield
90-004764
Modeling
90-001057
90-004564
Mortality Rates
90-006447
Movements
90-005531
Musculature
90-003247
Nets/Purse Seines
90-004564

...CONTINUED...
Thunnus albacares
Niche Overlaps
90-003749
Parasites/Diseases
90-004116
Photoperiodism
90-003749
Population Studies
90-001057
90-004564
90-006447
Predator/Prey Relationships
90-000627
Swimming Performance
90-003247
Temperature Selection
90-003749
Thermocline
90-003749
Yield
90-004564
Thunnus atlanticus
Larval Identification
90-005891
Thunnus maccoyii
Age/Growth
90-004555
Bacterial Diseases
90-004116
Cannibalism
90-003975
Catch Per Unit Effort
90-001740
Distribution/Vertical
90-003903
Early Development
90-003975
Foods/Feeding
90-003975
Goussia auxidis
90-004116
Kudoa
90-005967
Larval Behavior
90-003903
Length-Weight Relationships
90-001740
Longlines
90-001740
Mark/Recapture
90-006366
Marking/Tagging
90-006366
Parasites/Diseases
90-004116
90-005967
Protozoan Diseases
90-005967
Rhythmicity
90-003903
Thunnus obesus
Age/Growth
90-005140
Coexistence
90-004755
Distribution/Seasonal
90-004755
Distribution/Vertical
90-003749
90-005531
Fish Aggregation Devices
90-005531

...CONTINUED...
Thunnus obesus
Habitat Selection
90-003749
Larval Identification
90-005891
Management/Research--Marine
90-005531
Marking/Tagging
90-005531
Movements
90-005531
Niche Overlaps
90-003749
Osteology
90-005140
Photoperiodism
90-003749
Temperature Selection
90-003749
Thermocline
90-003749
Thunnus thynnus
Age/Growth
90-005140
Commercial Fishing
90-002925
Early Development
90-005783
Fish Behavior
90-006409
Foods/Feeding
90-005603
90-005783
Larval Behavior
90-005783
Larval Drift
90-003914
Larval Identification
90-005891
Management/Research--Marine
90-002925
90-004806
Nets/Set Nets
90-006409
Osteology
90-005140
Parasites/Diseases
90-005603
Population Studies
90-004806
Public Relations
90-002925
Satellite Imagery
90-003914
Thunnus thynnus thynnus
Catch Per Unit Effort
90-004482
Exploitation Rates
90-004482
Management/Research--Marine
90-004482
Thymallus
Enzymes
90-003682
Variation Studies
90-003682
Thymallus arcticus
Aerial Surveys
90-002234
Compensatory Swimming
90-006462
...CONTINUED...
Thymallus arcticus
Culture/Propagation
90-005027
Culverts
90-004540
Diets
90-005027
Economics
90-005027
Energy Development
90-002234
Exploitation Rates
90-006358
Feeding Experiments
90-005027
Feeds
90-005027
Foods/Feeding
90-003963
90-006462
Gravel Mines
90-002234
Habitat Selection
90-005689
Length-Weight Relationships
90-001164
Management/Research--Lakes
90-000508
90-001164
Management/Research--Rivers and Streams
90-000508
90-006358
90-006462
Marking/Tagging
90-002234
Microhabitat
90-006462
Migration
90-000508
90-002234
Mitigation
90-002234
Modeling
90-006462
Movements
90-005689
Overwintering
90-002234
Population Studies
90-001164
Predator/Prey Relationships
90-003963
Regulations/General
90-006358
Rheotropism
90-000508
Road Construction
90-004540
Spawning
90-000508
90-005689
Sportfishing
90-001164
Thymallus brevirostris
Rhythmicity
90-003451
Season
90-003451
Temperature
90-003451

Thymallus thymallus
Activity Patterns
90-005509
Genetic Diversity
90-005436
Hatching
90-005509
Migration
90-005509
Neoechinorhynchus rutili
90-002457
Parasites/Diseases
90-002457
Trematodes
90-002457
Variation Studies
90-005436
Tilapia
Aggressive Behavior
90-002090
Allozymes
90-005485
Brackishwater Culture
90-000360
90-003051
90-003083
Chilodonella cyprini
90-004143
Cichlidogyrus sclerosus
90-006040
Competition
90-004502
Culture/Propagation
90-000037
90-000038
90-000360
90-000465
90-000731
90-003051
90-003076
90-003083
90-003713
90-004899
90-004952
90-004965
DNA
90-005485
Enterogyrus cichlidarum
90-006014
Evolution
90-005485
Exotic Species/Rwanda
90-004502
Extension Services
90-000038
Feminization
90-000037
Fertilization/Soil and Water
90-003076
Fish as Food
90-000038
Genetic Fitness
90-000465
Genetics
90-000465
90-003713
Gill Parasites
90-006040
Heavy Metals
90-004256
Immune Response
90-002090

...CONTINUED...

Tilapia
Lipid Metabolism
90-000384
Management/Research--Lakes
90-004502
Mangroves
90-003051
Masculinization
90-000037
Mitochondria
90-005485
Osmoregulation
90-000360
Parasites/Diseases
90-000731
90-004143
90-006014
90-006040
Parental Behavior
90-000037
Pond Culture
90-003076
Protozoan Diseases
90-004143
Public Health Problems
90-004256
Recirculating Systems
90-004965
Reproduction
90-000037
Salinity
90-000360
Site Suitability
90-003051
90-004899
Social Behavior
90-002090
Spawning Cycle Regulation
90-000037
Stock Identification
90-005485
Stocking/Introductions
90-004502
Tank Culture
90-004952
Temperature
90-003713
Thermal Tolerance
90-003713
Trace Metals
90-004256
Trematodes
90-006014
90-006040
Variation Studies
90-005485
Water Quality
90-003076
90-004965
Tilapia aurea
Age/Growth
90-000051
90-000070
90-000472
90-003293
90-005201
Amino Acids
90-000314
Anesthetics
90-003533
Benzocaine
90-003533

...CONTINUED...
Tilapia aurea
Brood Stock
90-000070
Carcass Traits
90-005061
90-006732
Chemical Reclamation
90-006361
Coloration
90-000472
90-001646
90-003701
Competition
90-003976
Culture/Propagation
90-000051
90-000070
90-000107
90-000117
90-000472
90-001577
90-003074
90-003119
90-003123
90-003127
90-003533
90-003623
90-004199
90-004954
90-004957
90-004978
90-005042
90-005043
90-005061
90-005201
90-006361
90-006732
Diets
90-000117
90-004957
90-005042
90-005043
Eggs
90-003203
Endocrinology
90-003304
Ergasilus
90-004199
Exotic Species/Florida
90-003976
Feeding Experiments
90-000107
90-000117
90-003119
90-005201
Feeds
90-000107
90-001577
90-003127
90-005061
Fertilization
90-003203
Fertilization/Soil and Water
90-003074
Fingerling Production
90-001577
Fish Control/Removal
90-006361
Fish Silage
90-001577
Food Conversion Efficiency
90-003119

...CONTINUED...
Tilapia aurea
Foods/Feeding
90-003976
90-005201
90-005790
Genetics
90-000472
Gonadotropin
90-003304
Gonosomatic Index
90-000051
Growth Stimulants
90-004978
Gynogenesis
90-003616
Hormones
90-000051
90-003304
90-004978
Hybridization
90-000070
90-000117
90-003127
90-003623
90-004954
90-004978
90-006732
Immune Response
90-005319
Lateral Line System
90-000209
Lipid Content
90-003123
Livestock-Fish Culture
90-004957
Manure
90-004957
Medication In Diets
90-000051
Metabolic Rates
90-003293
Monosex Culture
90-004954
Musculature
90-004978
Nervous System
90-000209
Niche Overlaps
90-003976
Nutrition
90-000107
90-000314
90-001577
90-003119
90-003123
90-005043
90-005061
Parasites/Diseases
90-004199
Parasitic Copepods
90-004199
Parental Transfer
90-005319
Pigments
90-001646
Polyculture
90-006361
Pond Culture
90-003074
90-004957
Protein Metabolism
90-000107

...CONTINUED...
Tilapia aurea
Proteins
90-005201
Salinity
90-000070
90-000117
90-002025
Scales
90-001646
Sex Determination
90-003616
Sex Ratios
90-003616
Sex Reversal
90-000051
90-004978
Sperm
90-003203
Storage Effects
90-005061
Taste and Odor Problems
90-005061
Temperature
90-002025
90-003623
Thermal Tolerance
90-002025
90-003623
Transportation
90-003533
Trophic Relationships
90-005790
Vitamins
90-003123
90-005042
90-005043
Tilapia esculenta
Competition
90-004512
Management/Research--Lakes
90-004512
Population Studies
90-004512
Tilapia galilaea
Age/Growth
90-003293
90-004009
Antibodies
90-003284
Cichlidogyrus halli
90-004198
Coloration
90-001646
90-003701
Culture/Propagation
90-000063
90-000735
Diazinon
90-006132
Diets
90-000063
Foods/Feeding
90-000626
Gill Parasites
90-004198
Hematology
90-003284
Insecticides
90-006132
Metabolic Rates
90-003293

...CONTINUED...
Tilapia galilaea
Myxobolus ovariae
90-000768
Nutrition
90-000063
Parasites/Diseases
90-000734
90-000735
90-000768
90-004198
Pigments
90-001646
Protozoan Diseases
90-000768
Scales
90-001646
90-004009
Trematodes
90-004198
Tilapia guineensis
Acanthocephalus
90-000769
Age/Growth
90-000053
Brackishwater Culture
90-000052
90-000053
Brood Stock
90-000052
Culture/Propagation
90-000052
90-000053
90-004938
Fecundity
90-000052
Feeding Experiments
90-000053
Food Conversion Efficiency
90-000053
Hatchery/Wild Populations
90-000052
Management/Research--Ponds
90-004938
Maturation
90-000052
Monosex Culture
90-000053
Parasites/Diseases
90-000769
Polyculture
90-004938
Protozoan Diseases
90-000769
Rearing Density
90-004938
Tilapia hornorum
Age/Growth
90-001755
90-003061
90-003072
90-004988
Behavior
90-003072
Brackishwater Culture
90-003050
90-003109
90-004930
90-004988
Brood Stock
90-002011
90-003072

...CONTINUED...
Tilapia hornorum
Cage Culture
90-003050
90-004988
Coexistence
90-003072
Culture/Propagation
90-000107
90-002011
90-003050
90-003061
90-003072
90-003082
90-003109
90-003623
90-004930
90-004988
Cytotoxicity
90-000254
Diets
90-003109
90-004988
Economics
90-004930
Egg Production
90-003050
Feeding Experiments
90-000107
90-003109
Feeds
90-000107
Food Conversion Efficiency
90-003109
Fry Production
90-003050
Genetics
90-003082
Hematology
90-000254
Hybridization
90-002011
90-003050
90-003061
90-003072
90-003082
90-003109
90-003623
90-004930
90-004988
Immune Response
90-000254
Marketing
90-004930
Nutrition
90-000107
Polyculture
90-003061
Pond Culture
90-003061
Protein Metabolism
90-000107
Rearing Density
90-004988
Reproduction
90-002011
Salinity
90-002011
90-003082
Selective Breeding
90-003072
Site Suitability
90-004930

...CONTINUED...
Tilapia hornorum
Survival
90-003082
Temperature
90-003623
Thermal Tolerance
90-003623
Vitamins
90-001755
Tilapia karongae
Morphometry
90-000718
Species Identification
90-000718
Tilapia leucosticta
Commercial Fishing
90-004616
Exploitation Rates
90-004616
Management/Research--Lakes
90-004616
Tilapia lidole
Foods/Feeding
90-002269
Morphometry
90-000718
Species Identification
90-000718
Tilapia melanotheron
Acanthocephalus
90-000769
Age/Growth
90-000053
Brackishwater Culture
90-000052
90-000053
Brood Stock
90-000052
Culture/Propagation
90-000052
90-000053
Fecundity
90-000052
Feeding Experiments
90-000053
Food Conversion Efficiency
90-000053
Hatchery/Wild Populations
90-000052
Maturation
90-000052
Monosex Culture
90-000053
Parasites/Diseases
90-000769
Protozoan Diseases
90-000769
Tilapia mossambica
Acidification
90-003204
Aeromonas hydrophila
90-004131
Age/Growth
90-001755
90-002288
90-003046
90-003072
90-003110
90-004988
90-005059
90-005201

...CONTINUED...
Tilapia mossambica
Age/Growth
90-005294
Aggressive Behavior
90-003366
Anesthetics
90-005179
Antibodies
90-003284
Bacterial Diseases
90-004124
90-004131
Bactericides
90-004114
Behavior
90-002095
90-002582
90-003072
90-004393
Bird Predation
90-001345
Brackishwater Culture
90-003050
90-003062
90-003109
90-004930
90-004988
Brain
90-006097
Brood Stock
90-002011
90-003066
90-003072
Cadmium
90-002592
90-004333
90-006199
Cage Culture
90-003050
90-003110
90-004988
Cell Culture
90-003573
Chloride Cells
90-003204
Chromosomes
90-000435
Coexistence
90-003072
Coloration
90-001646
90-002077
90-002081
90-003701
90-003719
90-004058
Condition Factors
90-005793
Copper
90-000924
Cortisol
90-003349
90-004333
Culture/Propagation
90-000092
90-000107
90-000115
90-001532
90-001630
90-001632
90-002011

...CONTINUED...
Tilapia mossambica
Culture/Propagation
90-002077
90-002081
90-003046
90-003050
90-003062
90-003066
90-003072
90-003081
90-003082
90-003109
90-003110
90-003111
90-003623
90-003719
90-004930
90-004941
90-004988
90-005059
90-005201
Cytology
90-003204
90-003524
90-003573
90-003575
Cytotoxicity
90-000254
DDT
90-006097
Detergents
90-002582
Diazinon
90-006097
Diets
90-000115
90-003109
90-004988
Digestive System
90-003211
90-003573
90-003575
90-005402
Dimethoate
90-006097
Dominance
90-003366
Early Development
90-001685
90-002592
90-005294
Economics
90-004930
Edwardsiella tarda
90-004131
Egg Production
90-003050
Electrical Anesthesia
90-005179
Electroshock
90-005179
Endocrinology
90-001955
90-003348
90-003349
90-003524
Enzymes
90-002036
90-004393
90-006097
Exploitation Rates
90-001314

...CONTINUED...
Tilapia mossambica
Fatty Acids
90-003575
Feeding Experiments
90-000092
90-000107
90-003109
90-003110
90-005059
90-005201
Feeds
90-000107
90-003111
Fenvalerate
90-002638
Fertilization
90-005478
Fertilization/Soil and Water
90-000092
Flavobacterium
90-004131
Food Conversion Efficiency
90-002609
90-003109
90-003110
Foods/Feeding
90-000653
90-002269
90-002609
90-005201
90-006300
Fry Production
90-003050
Gene Transfer
90-005478
Genetic Markers
90-002036
90-003719
Genetic Strains
90-003046
Genetics
90-001630
90-002077
90-002081
90-002095
90-003082
90-003719
Gills
90-003204
90-003348
90-003349
Glucose
90-001957
Gonosomatic Index
90-005793
Growth Hormone
90-001777
90-001957
Gynogenesis
90-003066
Harvest
90-006646
Hatchery/Wild Populations
90-003046
Heavy Metals
90-000924
90-004333
90-006199
Hematology
90-000254
90-000886

...CONTINUED...
Tilapia mossambica
Hematology
90-003284
90-005179
90-006199
Histology
90-001685
90-003211
Hormones
90-003348
90-003349
Hybridization
90-000092
90-002011
90-002081
90-002095
90-003046
90-003050
90-003062
90-003072
90-003081
90-003082
90-003109
90-003110
90-003366
90-003623
90-004930
90-004988
90-005478
90-006300
Hypothalamic-Hypophysial System
90-003348
90-003349
Immune Response
90-000254
90-003366
90-004131
Industrial Wastes
90-000886
90-002609
Insect Predation
90-004058
Insecticides
90-000908
90-002628
90-002638
Invertebrate Forage
90-000092
Ion Transport
90-001955
90-005402
Karyotypes
90-000435
Kidneys
90-001685
90-003348
90-003349
Lactate Dehydrogenase
90-002036
Length-Weight Relationships
90-005793
Life History/General
90-001345
Liver
90-003348
90-003349
Magnesium
90-005402
Malathion
90-000910
90-004393

...CONTINUED...
Tilapia mossambica
Management/Research--Lakes
90-000653
Management/Research--Reservoirs
90-001314
90-001336
90-001345
90-002288
Marketing
90-004930
Mate Selection
90-002095
Metabolic Rates
90-005219
90-005294
Metallothionein
90-004333
Monocrotophos
90-006097
Monosex Culture
90-001532
90-001632
90-003066
Mosquito Control
90-002628
90-006299
90-006300
Mucus
90-004131
Musculature
90-005219
Mycobacterium marinum
90-004124
Nets/Gill Nets
90-004518
Nets/Netting
90-004518
Nutrients
90-001336
Nutrition
90-000107
90-000115
90-001957
Oil Pollution
90-002582
Organophosphates
90-000908
Osmoregulation
90-001685
90-001955
Oxolinic Acid
90-004114
90-004115
Parasites/Diseases
90-003366
90-004114
90-004115
90-004124
90-004131
Parathion
90-000910
Pars Distalis
90-001955
Pesticides
90-004393
90-006207
pH
90-003204
Pigments
90-001646
Pituitary Gland
90-001957

...CONTINUED...
Tilapia mossambica
Pituitary Gland
90-002592
90-003524
Pollution Tolerance
90-006207
Polyploidy
90-001532
90-003066
Population Studies
90-001314
90-002288
Protein Metabolism
90-000107
Proteins
90-005201
Pseudomonas fluorescens
90-004131
Pyrethroids
90-002638
Raceway Culture
90-003062
Rearing Density
90-004988
Recirculating Systems
90-004941
Reproduction
90-002011
Rice Paddies
90-006299
90-006300
Salinity
90-001685
90-002011
90-003081
90-003082
90-003110
90-003348
Scales
90-001646
Selective Breeding
90-003046
90-003066
90-003072
Sex Ratios
90-005793
Sex Reversal
90-003066
90-003289
Site Suitability
90-004930
Sterilization
90-001532
Steroids
90-003289
Stress
90-004333
Stunting
90-002288
Supermales
90-001630
Survival
90-003082
Swimming Performance
90-005219
Techniques/Solar Heating
90-004941
Temperature
90-000924
90-003623
90-005219

...CONTINUED...
Tilapia mossambica
Temperature
90-005294
Textile Effluents
90-000886
Thermal Tolerance
90-003623
Toxins
90-000886
Triploid Fish
90-001532
90-003066
Trophic Relationships
90-001336
Vector Control
90-006299
90-006300
Vision
90-002095
Vitamins
90-001755
Water Quality
90-001336
Yersinia ruckeri
90-004131
Tilapia nilotica
Acanthocephalus
90-000769
Age/Growth
90-000048
90-000051
90-000060
90-000233
90-000472
90-003046
90-003058
90-003061
90-003069
90-004009
90-004958
90-005201
Algae Culture
90-003075
90-005066
Ammonia
90-004925
Antibodies
90-000318
90-003284
Bacteria
90-000077
Bacterial Flora
90-000375
90-000385
90-001962
90-003565
Behavior
90-002095
90-004393
Bioaccumulation
90-004376
Biochemical Composition
90-002016
Bioenergetics
90-000109
90-002016
Biosorption
90-002474
90-002581
Brackishwater Culture
90-003062

...CONTINUED...
Tilapia nilotica
Brood Stock
90-003058
Cadmium
90-006189
Cage Culture
90-000062
90-001340
Carcass Traits
90-005061
90-006732
Catecholamines
90-005414
Cichlidogyrus halli
90-004198
Coloration
90-000233
90-000472
90-002081
Commercial Fishing
90-004616
90-006660
Competition
90-004512
Copper
90-002581
Cortisol
90-006189
Cottonseed
90-001545
Culture/Propagation
90-000048
90-000050
90-000051
90-000060
90-000061
90-000062
90-000077
90-000090
90-000107
90-000117
90-000125
90-000233
90-000454
90-000472
90-000735
90-001340
90-001530
90-001545
90-001563
90-001577
90-002081
90-002811
90-003046
90-003053
90-003058
90-003061
90-003062
90-003069
90-003070
90-003074
90-003075
90-003081
90-003085
90-003105
90-003127
90-003623
90-003706
90-004925
90-004933
90-004946

...CONTINUED...
Tilapia nilotica
Culture/Propagation
90-004954
90-004958
90-004978
90-004986
90-005061
90-005066
90-005201
90-006732
Diets
90-000061
90-000117
Digestive System
90-003565
Egg Production
90-003069
90-003070
90-004946
Eggs
90-000182
90-003203
Embryology
90-000182
90-003069
90-003070
Endocrinology
90-003304
90-005192
Enzymes
90-001933
90-004393
Exotic Species/Africa: Lake Victoria
90-004512
Exotic Species/Uganda: Lake Kyoga
90-004512
Exploitation Rates
90-004616
Feeding Experiments
90-000090
90-000107
90-000117
90-005066
90-005201
Feeds
90-000090
90-000107
90-000125
90-001545
90-001563
90-001577
90-003105
90-003127
90-005061
Fertilization
90-003203
90-005478
Fertilization/Soil and Water
90-000061
90-003074
90-003075
90-004925
90-004933
Fingerling Production
90-000061
90-001577
Fish as Food
90-001421
Fish Preservation
90-000090

...CONTINUED...
Tilapia nilotica
Fish Silage
90-001577
Food Conversion Efficiency
90-002016
Foods/Feeding
90-000376
90-000626
90-000644
90-002269
90-005201
90-006300
Fry Production
90-000050
90-003069
90-003070
90-004946
Fungal Diseases
90-004139
Gene Transfer
90-005478
Genetic Strains
90-003046
90-003692
90-004986
Genetics
90-000454
90-000472
90-002081
90-002095
90-003058
90-003706
90-004986
Gill Parasites
90-004198
Gill Rakers
90-000644
Glucose
90-006189
Gonadotropin
90-003304
Growth Stimulants
90-004978
Gynogenesis
90-003706
Hapas
90-000048
90-000061
90-004946
Hatchery/Wild Populations
90-003046
Heavy Metals
90-002474
90-002581
90-004376
90-006189
Hematology
90-000317
90-003284
Histology
90-000376
Hormones
90-000051
90-003304
90-004978
90-005192
Hybridization
90-000117
90-002081
90-002095
90-003046

...CONTINUED...
Tilapia nilotica
Hybridization
90-003061
90-003062
90-003081
90-003127
90-003623
90-004954
90-004978
90-005478
90-006300
90-006732
Incubation
90-003069
90-003070
Invertebrate Forage
90-000077
Isozymes
90-001933
Liver
90-000376
Malathion
90-004393
Management/Research--Lakes
90-004512
90-004604
90-004616
90-004630
Management/Research--Reservoirs
90-001340
90-006660
Manure
90-000090
Marketing
90-000233
Mate Selection
90-002095
Medication In Diets
90-000051
Melanophores
90-005335
Mercury
90-002474
Metabolism
90-000109
Monosex Culture
90-000048
90-003085
90-004954
Mosquito Control
90-006299
90-006300
Muscle Proteins
90-003397
Musculature
90-001933
90-003397
90-003569
90-004978
Mycoplasma
90-004139
Myxobolus ovariae
90-000768
Net-Pen Culture
90-000061
90-000062
Nitrogen
90-003569
Nutrition
90-000107
90-000109

...CONTINUED...
Tilapia nilotica
Nutrition
90-001577
90-005061
Oil Pollution
90-004376
Overwintering
90-004986
Parasites/Diseases
90-000734
90-000735
90-000768
90-000769
90-004139
90-004198
Pesticides
90-004393
Pharyngeal Teeth
90-000644
Pigments
90-000233
90-000376
90-005335
Pituitary Gland
90-005192
Polyculture
90-000060
90-003061
Pond Culture
90-000048
90-000050
90-001530
90-003061
90-003074
90-004925
90-004933
90-004958
Population Studies
90-004512
Predator Introductions
90-004604
Predator/Prey Relationships
90-004630
Production
90-001530
90-003075
90-004933
90-004958
Protein Metabolism
90-000107
Proteins
90-005201
Protozoan Diseases
90-000768
90-000769
Raceway Culture
90-003062
Rearing Density
90-000050
90-000062
90-003075
90-004958
Regression Analysis
90-002811
Rice Paddies
90-006299
90-006300
Rice-Fish Culture
90-002811
Salinity
90-000117

...CONTINUED...
Tilapia nilotica
Salinity
90-003081
Scales
90-004009
Sediment Bioassays
90-002474
Selective Breeding
90-003046
90-003058
Sex Determination
90-000454
Sex Ratios
90-000048
90-000050
90-000454
90-003085
Sex Reversal
90-000051
90-003085
90-004946
90-004978
Sexual Dimorphism
90-000454
Sperm
90-000317
90-000318
90-003203
Sperm Preservation
90-001628
Spleen
90-005414
Starvation
90-000109
Stock Identification
90-003692
Stocking/Introductions
90-004512
90-004604
Storage Effects
90-000090
90-001421
90-005061
Survival
90-003069
Taste and Odor Problems
90-005061
Temperature
90-003069
90-003070
90-003623
90-004986
Thermal Tolerance
90-003070
90-003623
90-004986
Thyroid Gland
90-005192
Thyroxine
90-005192
Trematodes
90-004198
Trophic Relationships
90-004604
Tropics
90-006660
Vector Control
90-006299
90-006300
Vision
90-002095

...CONTINUED...
Tilapia nilotica
Vitamins
90-003565
Water Supply
90-000050
Tilapia rendalli
Commercial Fishing
90-004689
Competition
90-004689
Culture/Propagation
90-004973
Endocrinology
90-005166
Foods/Feeding
90-003929
90-006656
Gonads
90-005166
Leydig Organ
90-005166
Management/Research--Reservoirs
90-004689
90-006656
Marking/Tagging
90-000613
Movements
90-000613
Population Studies
90-004689
Reproductive System
90-005166
Telemetry
90-000613
Trophic Relationships
90-006656
Tilapia saka
Morphometry
90-000718
Species Identification
90-000718
Tilapia sparrmanii
Heavy Metals
90-001851
Iron
90-001851
Metabolic Rates
90-001851
Oxygen
90-001851
Xenobiotics
90-001851
Zinc
90-001851
Tilapia spilurus
Age/Growth
90-000070
90-000217
90-004975
Ammonia
90-000217
Brackishwater Culture
90-004975
Brood Stock
90-000070
Cage Culture
90-000068
90-001523
90-003091
Culture/Propagation
90-000068

...CONTINUED...
Tilapia spilurus
Culture/Propagation
90-000070
90-001523
90-003091
90-004975
Excretory System
90-000217
Food Conversion Efficiency
90-004975
Fry Production
90-001523
Hormones
90-004975
Hybridization
90-000070
Medication In Diets
90-004975
Nutrition
90-000217
Production
90-000068
Proteins
90-000217
Rearing Density
90-000068
Salinity
90-000070
90-000217
90-001523
90-003091
Sex Reversal
90-004975
Temperature
90-003091
Tilapia squamipinnis
Morphometry
90-000718
Species Identification
90-000718
Tilapia urolepis
Age/Growth
90-003110
Aggressive Behavior
90-003366
Brackishwater Culture
90-003050
Cage Culture
90-003050
90-003110
Culture/Propagation
90-000092
90-003050
90-003110
Dominance
90-003366
Egg Production
90-003050
Feeding Experiments
90-000092
90-003110
Fertilization/Soil and Water
90-000092
Food Conversion Efficiency
90-003110
Fry Production
90-003050
Hybridization
90-000092
90-003050
90-003110

...CONTINUED...
Tilapia urolepis
Hybridization
90-003366
Immune Response
90-003366
Invertebrate Forage
90-000092
Parasites/Diseases
90-003366
Salinity
90-003110
Tilapia zilli
Age/Growth
90-005201
Amino Acids
90-003419
Antibodies
90-003284
Ascorbic Acid
90-005011
Chemical Reclamation
90-006361
Cichlidogyrus halli
90-004198
Cobalt
90-005011
Commercial Fishing
90-004616
Culture/Propagation
90-000107
90-001544
90-004199
90-004973
90-005011
90-005201
90-006361
Diets
90-001544
Electrophysiology
90-003419
Ergasilus
90-004199
Exploitation Rates
90-004616
Feeding Experiments
90-000107
90-005201
Feeds
90-000107
90-001544
Fingerling Production
90-001544
Fish Control/Removal
90-006361
Food Conversion Efficiency
90-005011
Foods/Feeding
90-005201
Gill Parasites
90-004198
Growth Stimulants
90-005011
Hematology
90-003284
Management/Research--Lakes
90-004616
Nutrition
90-000107
90-005011
Parasites/Diseases
90-004198

...CONTINUED...
Tilapia zilli
Parasites/Diseases
90-004199
Parasitic Copepods
90-004199
Polyculture
90-006361
Protein Metabolism
90-000107
Proteins
90-005201
Taste Reception
90-003419
Trematodes
90-004198
Tinca tinca
Abundance/Factors of
90-006339
Age/Growth
90-001114
90-002292
Aquatic Plant Control
90-002995
Biosorption
90-002604
Boat Turbidity
90-006329
Cadmium
90-004236
Canals
90-006329
Chlorinated Hydrocarbons
90-002604
Coexistence
90-003782
Early Development
90-002292
Enzymes
90-000260
Fish Control/Removal
90-006530
Flow Regimes
90-006567
Foods/Feeding
90-001114
90-003782
Heavy Metals
90-002604
90-004236
Histology
90-001643
Interspecies Relationships
90-003782
Isopods
90-002995
Lactate Dehydrogenase
90-000260
Lead
90-004236
Management/Research--Lakes
90-001114
Management/Research--Rivers and Streams
90-006329
Mercury
90-004236
Olfaction
90-001643
Pesticides
90-002604
Pollution
90-006339

...CONTINUED...
Tinca tinca
Population Studies
90-000951
90-006339
Recruitment
90-006339
90-006567
Sewage Effluents
90-002604
Ship Canals
90-006329
Stocking/Introductions
90-006503
Temperature
90-000260
90-002292
90-006339
Thermal Pollution
90-006339
Trophic Relationships
90-002995
90-006503
90-006530
Wetlands
90-000951
Tomicodon
Detritus
90-003796
Drift Algae
90-003796
Habitat Selection
90-003796
Mangroves
90-003796
Microhabitat
90-003796
Tomicodon abuelorum
Early Development
90-004083
Life History/General
90-004083
Morphology
90-004083
New Species
90-004083
Tor khudree
Culture/Propagation
90-001562
Feeds
90-001562
Tor putitora
Abundance/Factors of
90-002166
Life History/General
90-002166
Management/Research--General
90-002166
Torpedo
Anesthetics
90-001833
Ion Transport
90-001833
Nervous System
90-001833
Torpedo californica
Electric Fish
90-005191
Electric Organs
90-005191
Nervous System
90-005191

Torpedo marmorata
Chromosomes
90-000471
Early Development
90-003418
Electric Fish
90-000426
Electric Organs
90-000426
Electrolytes
90-003418
Gall Bladder
90-000315
Genetic Markers
90-000471
Karyotypes
90-000471
Proteins
90-000426
Urea
90-000315
Torpedo ocellata
Chromosomes
90-000471
Genetic Markers
90-000471
Karyotypes
90-000471
Torquigener balteus
Morphology
90-000712
New Species
90-000712
Taxonomy
90-000712
Torquigener pleurogramma
Gill Parasites
90-006050
Heterobothrium elongatum
90-006050
Parasites/Diseases
90-006050
Trematodes
90-006050
Trachidermus fasciatus
Life History/General
90-005609
Trachinotus glaucus
Foods/Feeding
90-003937
Trachinotus goodei
Culture/Propagation
90-004899
Site Suitability
90-004899
Trachinotus paitensis
Lobatostoma pacificum
90-000797
Parasites/Diseases
90-000797
Trematodes
90-000797
Trachurus japonicus
Bactericides
90-004114
Distribution/Seasonal
90-003924
Exercise
90-002018
Harvest
90-006403

...CONTINUED...
Trachurus japonicus
Light
90-001756
Oxolinic Acid
90-004114
90-004115
Parasites/Diseases
90-004114
90-004115
Spleen
90-002018
Techniques/Vision
90-001756
Vision
90-001756
Trachurus lathami
Abundance/Factors of
90-005638
Distribution/Seasonal
90-005638
Early Development
90-005638
Life History/General
90-005638
Trachurus mediterraneus
Abundance/Factors of
90-002762
Management/Research--Marine
90-002762
Trachurus mediterraneus ponticus
Electrolytes
90-003485
Ion Transport
90-003485
Metabolic Rates
90-005219
Musculature
90-003485
90-005219
Osmoregulation
90-003485
Respiration
90-003485
Swimming Performance
90-005219
Temperature
90-005219
Trachurus picturatus
Foods/Feeding
90-003937
Trachurus symmetricus
Body Form
90-004531
Fishing Gear
90-004531
Gear Selectivity
90-004531
Harvest
90-004728
Length-Weight Relationships
90-004531
Mammal Predation
90-005868
Management/Research--Marine
90-004728
Nets/Netting
90-004531
Nets/Purse Seines
90-004531
Trachurus symmetricus murphyi
Abundance/Factors of
90-000575

...CONTINUED...
Trachurus symmetricus murphyi
Body Form
90-003680
Distribution/Factors of
90-000680
Distribution/Geographical
90-000680
Gear Selectivity
90-003680
Length-Weight Relationships
90-003680
Management/Research--Marine
90-000575
Nets/Netting
90-003680
Predator/Prey Relationships
90-000680
Production
90-000575
Recruitment
90-005657
Trachurus trachurus
Age/Growth
90-001673
90-004004
Catch-Age Analysis
90-006438
Harvest
90-006438
Management/Research--Marine
90-006438
Morphometry
90-001673
Otolith Preparation
90-004004
Otoliths
90-001673
Parasites/Diseases
90-004215
Reproduction
90-001673
Sterrhurus musculus
90-004215
Trematodes
90-004215
Variation Studies
90-001673
Virtual Population Analysis
90-006438
Trachurus trecae
Age/Growth
90-002222
Distribution/Seasonal
90-002222
Morphometry
90-002222
Zoogeography
90-002222
Trachyrhamphus longirostris
Distribution/Geographical
90-005850
Trematocranus
Aquariums
90-001599
Culture/Propagation
90-001599
Trematomus newnesi
Age/Growth
90-000668
Life History/General
90-000668

...CONTINUED...
Trematomus newnesi
Metabolism
90-003340
90-003461
Musculature
90-003461
Otoliths
90-000668
Temperature
90-003340
Thermal Tolerance
90-003340
90-003461
Triaenodon
Electrophoresis
90-002059
Taxonomy
90-002059
Triakis
Teeth
90-001680
Triakis semifasciata
Blood Pressure
90-000307
Cardiovascular System
90-000307
90-001892
90-001893
Exercise
90-000307
90-001893
90-005298
Heart
90-000307
90-001892
90-005298
Marking/Tagging
90-005639
Mortality Rates
90-005639
Movements
90-005639
Recruitment
90-005639
Respiration
90-001893
Swimming Performance
90-001893
Yield-per-Recruit
90-005639
Tribolodon ezoe
Foods/Feeding
90-002127
Vision
90-002127
Tribolodon hakonensis
Early Development
90-005150
Electrophoresis
90-001898
Embryology
90-001898
Isozymes
90-001898
Musculature
90-003569
Nitrogen
90-003569
Pharyngeal Teeth
90-005150
Trichiurus lepturus
Activity Patterns
90-005554

...CONTINUED...
Trichiurus lepturus
Distribution/Vertical
90-005554
Early Development
90-001692
Harvest
90-006403
Photoperiodism
90-005554
Sense Organs
90-001692
Trichodon trichodon
Reproduction
90-005723
Variation Studies
90-005723
Trichogaster leeri
Aggressive Behavior
90-003429
Nervous System
90-003429
Trichogaster microlepis
Bacterial Flora
90-001962
Trichogaster pectoralis
Cage Culture
90-004969
Culture/Propagation
90-001520
90-004969
Management/Research--General
90-001520
Population Studies
90-001520
Rice Paddies
90-001520
Rice-Fish Culture
90-001520
Tropics
90-001520
Water Quality
90-004969
Trichogaster trichopterus
Aggressive Behavior
90-003429
Bacterial Flora
90-001962
Endocrinology
90-005218
Gonadotropin
90-005218
Induced Maturation
90-005218
Nervous System
90-003429
Trichomycteridae
Early Development
90-005121
Jaws
90-005121
Osteology
90-005121
Variation Studies
90-005121
Tridentiger obscurus
Larval Drift
90-005734
Trimma
Gonads
90-005125
Hermaphroditism
90-005125

...CONTINUED...
Trimma
Variation Studies
90-005125
Trimma okinawae
Caves
90-003892
Courtship
90-003892
Mate Selection
90-003892
Polygyny
90-003892
Sex Reversal
90-003892
Spawning
90-003892
Trimmatom macropodus
New Species
90-005895
Taxonomy
90-005895
Trimmatom nanus
Taxonomy
90-005895
Trimmatom sagma
New Species
90-005895
Taxonomy
90-005895
Trimmatom zapotes
New Species
90-005895
Taxonomy
90-005895
Trinectes maculatus
Bioluminescence
90-000925
Phagocytosis
90-000925
Tributyltin
90-000925
Triphoturus mexicanus
Electrophoresis
90-005425
Fecundity
90-003867
Isozymes
90-005425
Length-Weight Relationships
90-003867
Reproduction
90-003867
Zoogeography
90-005425
Triphoturus nigrescens
Recruitment
90-005657
Triportheus magdalenae
Commercial Fishing
90-006660
Management/Research--Reservoirs
90-006660
Tropics
90-006660
Tripterygiidae
Coexistence
90-004752
Management/Research--Marine
90-004752
Reef Fish Communities
90-004752

Trisopterus esmarki
Biomass
90-004813
Management/Research--Marine
90-004813
Mortality Rates
90-004591
Trisopterus luscus
Abundance/Factors of
90-004702
Age/Growth
90-005816
Management/Research--Estuaries
90-004702
Nursery Areas
90-004702
Recruitment
90-004702
Tropheus duboisi
Foods/Feeding
90-003974
Parental Behavior
90-003974
Reproduction
90-003974
Tropheus moorii
Foods/Feeding
90-003974
Parental Behavior
90-003974
Reproduction
90-003974
Tropidinius zonatus
Distribution/Vertical
90-003941
Foods/Feeding
90-003941
Trophic Relationships
90-003941
Tropidophoxinellus alburnoides
Management/Research--Rivers and Streams
90-006613
Trophic Relationships
90-006613
Trypauchenidae
Lateral Line System
90-001739
Seismosensory System
90-001739
Tylosurus
DDT
90-002644
Pesticides
90-002644
Predator/Prey Relationships
90-002266
Umbra limi
Beaver Ponds
90-004686
Bog Lakes
90-002159
Catch Per Unit Effort
90-002159
Management/Research--Lakes
90-002159
Population Studies
90-002159
Sampling
90-002159
Traps/Minnow Traps
90-002159
Umbra pygmaea
Acidification
90-003590
Endocrinology
90-003590
Hormones
90-003590
Osmoregulation
90-003590
pH
90-003590
pH Regulation
90-003590
Umbrina canosai
Cohort Analysis
90-004561
Exploitation Rates
90-004561
Harvest
90-004480
Management/Research--Marine
90-004480
90-004561
Mortality Rates
90-004561
Stock Assessment
90-004561
Upeneus asymmetricus
Foods/Feeding
90-002240
Life History/General
90-002146
Upeneus moluccensis
Foods/Feeding
90-002240
Life History/General
90-002146
Upeneus pori
Morphology
90-002342
New Species
90-002342
Uraspis secunda
Distribution/Geographical
90-004011
Urolophus halleri
Cestodes
90-005997
Endocrinology
90-000251
Hormones
90-000251
Parasites/Diseases
90-005997
Phyllobothrium hallericola
90-005997
Pituitary Gland
90-000251
Reproductive Cycle
90-000251
Urophycis brasiliensis
Foods/Feeding
90-003746
Management/Research--Marine
90-003746
Niche Overlaps
90-003746
Trophic Relationships
90-003746
Varicorhinus barbatus
Flow Regimes
90-001301

...CONTINUED...
Varicorhinus barbatus
Management/Research--Rivers and Streams
90-001301
Population Studies
90-001301
Varicorhinus capoeta
Head
90-001743
Osteology
90-001743
Sexual Dimorphism
90-001743
Variation Studies
90-001743
Varicorhinus ruandae
Competition
90-004502
Extinction
90-004502
Management/Research--Lakes
90-004502
Vimba vimba
Life History/General
90-003830
Morphology
90-003830
Vinciguerria attenuata
Bioluminescence
90-005358
Enzymes
90-005358
Vinciguerria lucetia
Bird Predation
90-003967
Fecundity
90-003867
Length-Weight Relationships
90-003867
Recruitment
90-005657
Reproduction
90-003867
Wallago
Evolution
90-000432
Genetics
90-000432
Wallago attu
Cestodes
90-006002
Parasites/Diseases
90-006002
Senga lucknowensis
90-006002
Xenotoca eiseni
Cytology
90-001733
90-001734
Embryology
90-001734
Proteins
90-001733
Reproduction
90-001733
Xererpes fucorum
Recruitment
90-002940
Xiphias gladius
Age/Growth
90-000673

...CONTINUED...
Xiphias gladius
Commercial Fishing
90-004720
90-004724
Distribution/Geographical
90-001387
Exploitation Rates
90-001387
90-004724
Fin Rays
90-000673
Foods/Feeding
90-003960
90-004756
Jurisdiction
90-004724
Life History/General
90-001387
Longlines
90-004720
Management/Research--Marine
90-001387
90-004720
90-004724
90-004756
90-004806
Population Studies
90-004724
90-004806
Recreational Benefits
90-004756
Regulations/General
90-004720
Sportfishing
90-004756
Xiphophorus
Cytology
90-000396
DNA
90-000396
Xiphophorus alvarezi
Aquariums
90-005647
Culture/Propagation
90-005647
Life History/General
90-005647
Xiphophorus couchianus
Genetic Diversity
90-003669
Inbreeding
90-003669
Xiphophorus gordoni
Genetic Diversity
90-003669
Inbreeding
90-003669
Xiphophorus helleri
Diplostomum spathaceum
90-000803
Genetic Diversity
90-003669
Immunization
90-000803
Inbreeding
90-003669
Parasites/Diseases
90-000803
Sex Determination
90-003445
Trematodes
90-000803

Xiphophorus maculatus
Chromosomes
90-000478
Coloration
90-000478
Crypsis
90-000478
Disease Susceptibility
90-005441
Evolution
90-000478
Genetic Diversity
90-003669
Inbreeding
90-003669
Maturation
90-000478
Natural Selection
90-000478
Sexual Dimorphism
90-000478
Xiphophorus milleri
Genetic Diversity
90-003669
Inbreeding
90-003669
Xiphophorus montezumae
Age/Growth
90-001747
Aquariums
90-001747
Coloration
90-001747
Zoogeography
90-001747
Xiphophorus nigrensis
Age/Growth
90-003704
Competition
90-002114
Courtship
90-000485
Mate Selection
90-002114
90-003704
Maturation
90-000485
90-005717
Reproduction
90-000485
Survival
90-003704
Xiphophorus pygmaeus
Aquariums
90-000574
Life History/General
90-000574
Xiphophorus signum
Genetic Diversity
90-003669
Inbreeding
90-003669
Xiphophorus variatus
Behavior
90-005435
Disease Susceptibility
90-005441
Drought
90-005435
Genetic Diversity
90-003669

...CONTINUED...
Xiphophorus variatus
Habitat Selection
90-005435
Inbreeding
90-003669
Metabolism
90-001776
Microhabitat
90-001776
Niche Overlaps
90-001776
Oxygen
90-001776
90-005435
Variation Studies
90-005435
Xiphophorus xiphidium
Genetic Diversity
90-003669
Inbreeding
90-003669
Xyrauchen texanus
Embryology
90-003307
Foods/Feeding
90-005771
Hatching
90-003307
Ichthyoplankton
90-001339
Larval Identification
90-005892
Management/Research--Reservoirs
90-001339
90-003307
Oxygen
90-003307
Reproduction
90-001339
90-003307
Species Identification
90-005892
Starvation
90-005771
Survival
90-005771
Temperature
90-003307
Xystreurys rasile
Age/Growth
90-003984
Otoliths
90-003984
Yaci retropinis
Electrophoresis
90-000464
Variation Studies
90-000464
Zanclorhynchus spinifer
Bird Predation
90-005802
Zebrasoma xanthurus
Foods/Feeding
90-000642
Zoarces viviparus
Endocrinology
90-000326
Hematology
90-000326
Hormones
90-000326

...CONTINUED...
Zoarces viviparus
  Reproductive System
    90-000326
Zosterisessor ophiocephalus
  Detoxification
    90-006134
  Helicometra
    90-002452
  Parasites/Diseases
    90-002452
  Polychlorinated Biphenyls
    90-006134
  Trematodes
    90-002452

BOOK REVIEW

Echeverria, John D., Pope Barrow and Richard Roos-Collins. 1989. *Rivers at Risk: The Concerned Citizen's Guide to Hydropower.* Island Press, Suite 300, 1718 Connecticut Ave. NW, Washington, DC 20009. 220 pp. Available from the publisher at $29.95 (cloth) and $17.95 (paper).

This book, authored by three lawyers on behalf of the conservation organization, American Rivers, is actually more of a field guide to the Federal Energy Regulatory Commission (FERC) than a book about rivers. As such, it is a readable and valuable account of the role of FERC in licensing hydropower facilities. Readers are presumed to have an interest in preserving or improving the flow of a river, although the examples highlighted throughout the book pertain more to recreational values than to fish and wildlife values. In eight chapters, the authors describe how citizens can work through the regulatory system to ensure these values are protected during licensing and relicensing activities.

Appendices include a list of FERC addresses and phone numbers; an example "motion to intervene" document; information on the relation between FERC and the National Environmental Policy Act; and a listing (through 1999) by state, of the relicensing workload.

Because more than 200 FERC-licensed hydroelectric projects are scheduled for relicensing in the next three years, this book is extremely timely. Opportunities exist now to rectify past mistakes and to ensure adequate stream flow for fish and wildlife resources in the future. This book should be in the library of every resource management agency that has a voice in the hydropower licensing process.—Diana H. Cross, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.

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Aquatic Plants
Acidification
90-000004
Algae
90-000002
90-000003
90-000859
90-000891
90-001190
90-002476
90-003195
90-005758
Algae Culture
90-001467
Algal Blooms
90-001176
90-001200
90-001222
90-001470
90-002996
90-003004
90-004710
90-004886
90-005110
Aquashade
90-002919
Aquatic Plant Control
90-001112
90-004885
Control/Algae
90-002888
Control/Biological
90-001466
90-001469
90-002888

...CONTINUED...

Aquatic Plants
Control/Biological
90-002995
90-002997
90-003782
90-004089
90-004885
Control/Chemical
90-004881
90-004882
Control/General
90-001113
Control/Mechanical
90-000005
90-004881
90-004882
90-004887
Control/Salinity
90-004456
Control/Water Levels
90-004456
Drift Algae
90-002919
90-002959
Elodea canadensis
90-002241
Elodea densa
90-001627
90-002241
Flow Regimes
90-006328
Fontinalis
90-004646
General
90-001568
90-006668
Hydrilla
90-001466
90-006504
Kelp
90-001471
90-002993
90-003966
90-004739
90-006701
Macrocystis
90-004739
90-006701
Nutrition
90-002241
Pollution
90-000002
90-000003
90-000859
90-000891
90-002476
90-002525
Potamogeton
90-002994
90-006546
Primary Production
90-002525
Salvinia
90-002997
Seagrass Beds
90-001415
90-001468
90-001472
90-002250
90-002672
90-002897

...CONTINUED...
Aquatic Plants
Seagrass Beds
90-002952
90-002998
90-004732
90-004879
90-004880
90-006668
90-006776
Spartina alterniflora
90-000001
90-004878
Toxic Algae
90-001470
90-002996
90-003811
90-003966
90-004886
90-006186
Trophic Relationships
90-004646
90-004877
90-004883
90-004884
90-004887
90-006546
Water Chestnut
90-004883
90-006631
Behavior
Acoustico-Lateralis System
90-002092
90-003757
Activity Patterns
90-000193
90-000286
90-000418
90-000498
90-000509
90-000512
90-000612
90-000631
90-001140
90-002108
90-003742
90-003765
90-003943
90-003945
90-005154
90-005509
90-005530
90-005538
90-005543
90-005544
90-005545
90-005554
90-005557
90-005574
90-005738
90-006513
Aestivation
90-001650
90-005565
Aggressive Behavior
90-001829
90-002090
90-003366
90-003429
90-003697
90-003748
90-003752

...CONTINUED...
Behavior
Aggressive Behavior
90-003758
90-003763
90-003770
90-003775
90-003788
90-005542
90-005562
90-005579
Agonistic Behavior
90-002104
90-003766
90-003791
90-005575
Air Breathing
90-002087
90-003739
Alarm Reaction
90-000293
90-000320
90-001471
Arousal
90-005570
Attacks on Humans
90-003775
90-003835
Bioenergetics
90-000418
90-000492
90-000502
90-000528
90-001017
90-002016
90-002089
90-002097
90-002179
90-002251
90-002763
90-003732
90-003772
90-003880
90-003881
90-003965
90-005340
90-005521
90-006501
Bioluminescence
90-005267
90-005518
90-005529
Burrowing Behavior
90-000488
90-000507
90-002161
90-003750
90-005578
Cannibalism
90-000504
90-002107
90-002130
90-002330
90-002852
90-003731
90-003958
90-003975
90-005533
Chemoreception
90-000293
90-000844
90-001471

...CONTINUED...
Behavior
Chemoreception
90-003778
90-003790
90-003793
90-005176
90-005514
90-005589
Circadian Rhythms
90-003401
Coexistence
90-000529
90-002128
90-002214
90-002862
90-003072
90-003753
90-003776
90-003779
90-003782
90-003807
90-003876
90-004659
90-004752
90-004755
90-004800
90-005572
90-006513
Colonization
90-004409
90-005508
90-006592
Coloration
90-001713
90-002105
90-002131
90-003868
90-005505
Communication
90-002092
90-002131
90-003730
90-005529
Compensatory Swimming
90-002122
90-005521
90-005536
90-006462
Competition
90-000486
90-000491
90-000510
90-000527
90-000571
90-000662
90-001360
90-002099
90-002101
90-002114
90-002277
90-002335
90-002874
90-003697
90-003733
90-003770
90-003783
90-003850
90-003976
90-004681
90-004689
90-005560

...CONTINUED...
Behavior
Competition
90-005572
90-005573
90-006377
90-006580
90-006640
90-006647
Courtship
90-000142
90-000485
90-000522
90-001608
90-001610
90-001978
90-002092
90-002093
90-002205
90-003159
90-003429
90-003731
90-003760
90-003768
90-003771
90-003779
90-003871
90-003892
90-005513
90-005550
90-005695
Crypsis
90-000487
90-001713
Defensive Behavior
90-000518
90-005546
90-005568
Diadromy
90-002233
Distribution/Vertical
90-000489
90-000513
90-000519
90-000611
90-000614
90-000615
90-000616
90-000628
90-002086
90-002119
90-002133
90-002217
90-002232
90-003738
90-003749
90-003785
90-003903
90-003925
90-003990
90-004611
90-005524
90-005531
90-005543
90-005544
90-005545
90-005554
90-005557
90-005737
90-005740
90-005755
90-006771

...CONTINUED...
Behavior
Diurnal Rhythm
90-000628
90-002132
90-002239
90-005517
90-005564
Dominance
90-000515
90-003366
90-003711
90-003756
90-003758
90-003774
Drinking Behavior
90-000381
90-003409
90-003794
Early Development
90-000528
90-003794
90-005153
Egg Predation
90-000504
90-002130
90-003731
90-003745
90-005535
90-005757
Egg Trading
90-002126
Electric Behavior
90-000296
Electrical Communication
90-001875
90-002092
90-005541
Electrolocation
90-001875
Electroshock
90-002723
Escape Behavior
90-000487
90-002103
90-003734
90-003741
90-003751
90-005280
90-005519
Evacuation
90-003965
90-005772
Evolution
90-000523
90-003685
90-005550
90-005571
90-005577
90-005583
90-005632
90-005750
90-006467
Food Supply
90-003747
90-003930
90-003968
90-005588
90-005750
90-005761
90-006501
Foods/Feeding
90-000096

...CONTINUED...
Behavior
Foods/Feeding
90-000118
90-000193
90-000194
90-000381
90-000486
90-000488
90-000492
90-000495
90-000496
90-000499
90-000501
90-000503
90-000505
90-000517
90-000527
90-000528
90-000622
90-000628
90-000631
90-000635
90-000636
90-000639
90-000642
90-000643
90-000644
90-000646
90-000652
90-000656
90-000657
90-000661
90-000662
90-000888
90-000903
90-000913
90-001017
90-001360
90-001471
90-001584
90-001662
90-002084
90-002087
90-002091
90-002094
90-002101
90-002111
90-002112
90-002119
90-002125
90-002127
90-002235
90-002237
90-002239
90-002241
90-002244
90-002248
90-002250
90-002251
90-002252
90-002253
90-002255
90-002257
90-002260
90-002263
90-002269
90-002270
90-002277
90-002279
90-002280
90-002282

...CONTINUED...
Behavior
Foods/Feeding
90-002283
90-002609
90-002658
90-002763
90-002893
90-003685
90-003728
90-003733
90-003738
90-003746
90-003748
90-003755
90-003757
90-003782
90-003783
90-003927
90-003934
90-003936
90-003938
90-003940
90-003943
90-003945
90-003948
90-003963
90-003964
90-003965
90-003966
90-003968
90-003970
90-003974
90-003976
90-005154
90-005176
90-005340
90-005511
90-005517
90-005519
90-005525
90-005526
90-005532
90-005536
90-005544
90-005555
90-005572
90-005589
90-005745
90-005749
90-005750
90-005751
90-005761
90-005762
90-005764
90-005767
90-005769
90-005772
90-005773
90-005778
90-005780
90-005782
90-005787
90-006368
90-006407
90-006462
90-006488
90-006501
90-006526
90-006631
Fright Behavior
90-002103

...CONTINUED...
Behavior
Fright Behavior
90-003747
90-003769
90-003771
90-005280
90-005519
90-005537
General
90-003767
90-005567
Genetics
90-002045
90-002095
90-003697
Habitat Selection
90-000486
90-000491
90-000494
90-000497
90-000502
90-000507
90-000511
90-000514
90-000521
90-000529
90-000599
90-001140
90-001364
90-002096
90-002106
90-002117
90-002308
90-002858
90-002919
90-002978
90-003737
90-003743
90-003747
90-003749
90-003753
90-003780
90-003789
90-003796
90-003807
90-003916
90-003940
90-004573
90-004619
90-004675
90-004690
90-004732
90-004739
90-004768
90-004849
90-005435
90-005453
90-005507
90-005512
90-005515
90-005519
90-005520
90-005522
90-005525
90-005530
90-005539
90-005548
90-005549
90-005563
90-005572
90-005582

...CONTINUED...
Behavior
Habitat Selection
90-005586
90-005588
90-005617
90-005707
90-005730
90-005845
90-006501
90-006565
90-006579
90-006596
90-006598
90-006605
90-006674
Hatchery/Wild Populations
90-003777
90-005742
Hatching
90-005509
Hermaphroditism
90-003781
Imprinting
90-002088
90-003017
90-005514
Interspecies Relationships
90-000487
90-000491
90-000497
90-000527
90-001140
90-002099
90-002101
90-002104
90-002127
90-002128
90-002134
90-002214
90-002277
90-002874
90-003752
90-003753
90-003776
90-003782
90-003807
90-004592
90-004644
90-005515
90-005526
90-005535
90-005560
90-005573
90-005578
90-005585
90-005706
90-006540
Intraspecies Relationships
90-000510
90-002131
90-003770
90-003774
90-004592
90-005561
90-006385
Kin Recognition
90-005577
Larval Behavior
90-000286
90-000528
90-000530

...CONTINUED...
Behavior
Larval Behavior
90-000614
90-000615
90-000616
90-000617
90-002083
90-002084
90-002106
90-002112
90-002267
90-003738
90-003791
90-003903
90-003958
Lateral Line System
90-005206
Leaping Behavior
90-003740
Learning
90-005176
90-005514
90-005590
Light
90-000500
90-002109
90-002119
90-003401
Lunar Influences
90-002102
Mate Selection
90-000493
90-000510
90-000516
90-000520
90-000524
90-000597
90-002085
90-002095
90-002105
90-002114
90-002178
90-003617
90-003704
90-003758
90-003892
90-005540
90-005550
90-005551
90-005552
90-005632
90-005634
Memory
90-000515
90-000844
90-005514
Microhabitat
90-001776
90-005522
90-005573
90-005578
90-006462
Migration
90-000494
90-000508
90-000592
90-001498
90-002026
90-002149
90-002232
90-002233

...CONTINUED...
Behavior
Migration
90-002720
90-002760
90-003729
90-003732
90-003737
90-003759
90-003772
90-003784
90-003792
90-003793
90-003795
90-003847
90-003880
90-003881
90-003897
90-003911
90-005506
90-005509
90-005516
90-005538
90-005576
90-005686
90-005742
90-005898
90-006467
Modeling
90-001035
90-001053
90-003752
90-006462
90-006488
90-006491
Monogamy
90-000493
Movements
90-000521
90-000612
90-000613
90-000617
90-000663
90-002087
90-002117
90-002220
90-002260
90-003736
90-003780
90-003902
90-003908
90-004563
90-005507
90-005523
90-005528
90-005531
90-005539
90-005549
90-005563
90-005581
90-005730
90-005735
90-005738
90-005740
90-005841
90-006392
90-006393
Nests/Nesting
90-000506
90-000510
90-000526
90-000599

...CONTINUED...
Behavior
Nests/Nesting
90-002113
90-002131
90-002214
90-002973
90-003142
90-003760
90-005512
90-005585
90-005707
90-006491
Niche Overlaps
90-001360
90-001776
90-002101
90-002104
90-002134
90-003746
90-003749
90-003876
90-003976
90-005560
90-005572
90-005573
90-005773
90-006647
Olfaction
90-001439
90-002088
90-003778
90-003793
90-005570
90-005589
Orientation/Homing
90-002088
90-002122
90-002760
90-003017
90-003759
90-003784
90-003793
90-003795
90-003911
90-005504
90-005516
90-005547
90-005549
90-005558
90-005566
90-005581
90-006467
Overwintering
90-002217
90-002273
Parental Behavior
90-000037
90-000520
90-000600
90-001170
90-001608
90-001613
90-002097
90-002113
90-002126
90-002129
90-002130
90-002190
90-002195
90-003161
90-003165

...CONTINUED...
Behavior
Parental Behavior
90-003762
90-003974
90-005494
90-005556
90-005583
90-005632
90-005690
90-005694
90-005718
90-006488
Parr-Smolt Transformation
90-001498
Pheromones
90-002088
Photoperiodism
90-000509
90-000631
90-002087
90-002108
90-003749
90-003765
90-003792
90-003943
90-005154
90-005543
90-005554
90-005557
90-005574
90-005738
Phototropism
90-000500
90-001867
90-002119
90-003401
90-005267
90-005510
90-006421
Pollution
90-000320
90-000844
90-000888
90-000903
90-000913
90-002099
90-002100
90-002464
90-002493
90-002584
90-002606
90-002625
90-002626
90-002658
90-003790
Polygyny
90-003762
90-003781
90-003892
90-005508
Predator/Prey Relationships
90-000294
90-000487
90-000490
90-000511
90-000513
90-000525
90-000632
90-000646
90-000651
90-000655

...CONTINUED...
Behavior
Predator/Prey Relationships
90-000865
90-002083
90-002091
90-002120
90-002247
90-002248
90-002252
90-002254
90-002266
90-002267
90-002273
90-002910
90-003734
90-003747
90-003750
90-003769
90-003771
90-003777
90-003930
90-003936
90-003938
90-003940
90-003955
90-003958
90-003963
90-004054
90-005505
90-005537
90-005546
90-005567
90-005584
90-005745
90-005757
90-005775
90-005778
90-006488
Respiration
90-000505
90-003789
90-006116
Rheotropism
90-000508
90-003778
90-003792
Rhythmicity
90-002253
90-003785
90-003903
90-003968
90-005517
Schooling Behavior
90-000489
90-000492
90-000518
90-000519
90-000651
90-001828
90-002121
90-003770
90-005526
90-005546
90-005561
90-005568
90-005739
Season
90-005586
Sense Organs
90-003734
90-003958

...CONTINUED...
Behavior
Sense Organs
90-005543
Sex Reversal
90-000516
90-003889
90-005196
90-005542
90-005571
90-005695
90-005718
Sexual Precocity
90-002191
90-002209
90-005691
Shoaling Behavior
90-002132
90-004611
90-005537
90-005726
90-006491
Size Hierarchies
90-000510
90-000515
90-003756
90-005571
90-005590
Social Behavior
90-000296
90-000493
90-000515
90-000519
90-000523
90-000661
90-002090
90-002093
90-002121
90-002123
90-003736
90-003744
90-003756
90-003773
90-003781
90-003786
90-003787
90-003797
90-003889
90-005508
90-005534
90-005577
90-005590
90-005694
Sonic Stimuli
90-003597
90-003757
Sound Production
90-003730
90-003766
Spawning
90-000508
90-000510
90-000517
90-000522
90-000524
90-000528
90-000592
90-000599
90-001608
90-001770
90-001979
90-002093

...CONTINUED...
Behavior
Spawning
90-002102
90-002105
90-002108
90-002118
90-002124
90-002178
90-002191
90-002204
90-002205
90-002978
90-003142
90-003157
90-003159
90-003161
90-003729
90-003730
90-003759
90-003760
90-003762
90-003769
90-003779
90-003781
90-003787
90-003788
90-003868
90-003869
90-003880
90-003881
90-003892
90-005196
90-005337
90-005504
90-005513
90-005516
90-005520
90-005535
90-005539
90-005551
90-005552
90-005559
90-005585
90-005587
90-005686
90-005692
90-005700
90-005726
90-006488
Species Recognition
90-000525
90-003752
90-005550
Swimming Performance
90-000194
90-000505
90-000530
90-002112
90-002122
90-002625
90-003378
90-003547
90-003732
90-003740
90-003751
90-003764
90-003772
90-004525
90-005521
90-005527
90-005536

...CONTINUED...
Behavior
Swimming Performance
90-005553
90-006393
Symbiosis
90-003735
Taste Reception
90-005762
Techniques
90-002045
Techniques/Activity Patterns
90-002108
Techniques/Foods/Feeding
90-000096
90-002083
90-005031
Techniques/Habitat Selection
90-006760
Techniques/Light
90-002103
Techniques/Movements
90-000521
90-000613
90-004563
Techniques/Nests/Nesting
90-002973
Techniques/Swimming Performance
90-003378
90-005527
Techniques/Television
90-002103
Techniques/Vision
90-002135
Temperature Selection
90-002116
90-002119
90-003742
90-003749
90-005528
90-005588
90-005735
90-006501
90-006565
Terrestrial Behavior
90-003739
Territorial Behavior
90-000496
90-000498
90-000503
90-001770
90-002089
90-002093
90-002098
90-002113
90-002117
90-002118
90-002205
90-003752
90-003754
90-003774
90-003779
90-003787
90-003788
90-005337
90-005513
90-005520
90-005535
90-005562
90-005579
90-005718
90-005841

...CONTINUED...
Behavior
Testosterone
90-001829
Trophic Relationships
90-003746
Variation Studies
90-003617
90-003791
90-005513
90-005550
Ventral Substrate Response
90-003757
Vision
90-002095
90-002127
90-002135
90-002263
90-005154
90-005339
90-005510
90-005518
90-005564
Bibliographies
Acid Precipitation
90-001460
Aquatic Plants
90-006776
Coastal Habitat
90-006776
Culture/Propagation
90-004923
90-006777
Environmental Impact Assessments
90-002986
General/Wisconsin
90-001458
Habitat Alterations
90-002986
Habitat Selection
90-005617
Parasites/Diseases
90-001459
Reservoir Release Effects
90-006775
Riparian Habitat
90-001273
Salmonidae
90-001458
90-004923
90-005617
90-006777
Wetlands
90-000932
Culture/Propagation--Coldwater
Age/Growth
90-000030
90-000084
90-001488
90-001491
90-001500
90-001501
90-001508
90-001513
90-001517
90-001566
90-001575
90-001975
90-001997
90-002186
90-003013
90-003018

...CONTINUED...
Culture/Propagation--Coldwater
Age/Growth
90-003019
90-003021
90-003025
90-003032
90-003036
90-003263
90-003448
90-004902
90-004906
90-004915
90-005028
90-005158
90-005404
90-005776
Amino Acids
90-001583
Aquariums
90-001505
Artificial Streams
90-003028
Biofiltration
90-001506
Bird Predation
90-000031
Brackishwater Culture
90-004907
90-004913
90-005776
Brood Stock
90-001479
90-001480
90-001492
90-001495
90-001496
90-001498
90-001502
90-001504
90-001505
90-001518
90-001550
90-001551
90-001558
90-001575
90-001576
90-001581
90-001585
90-001997
90-002033
90-002053
90-002060
90-002061
90-003009
90-003014
90-003015
90-003018
90-003021
90-003613
90-003700
90-004903
90-005062
90-005991
Cage Culture
90-000031
90-001479
90-001499
90-001513
90-001515
90-001977
90-003016

...CONTINUED...
Culture/Propagation--Coldwater
Cage Culture
90-003025
90-003038
90-003956
90-004125
90-004905
90-005051
90-005776
90-006028
Carcass Traits
90-005055
90-005062
90-005158
Computer Applications
90-004919
Condition Factors
90-005062
Cryopreservation
90-001478
90-001616
90-001620
90-001626
Diets
90-000035
90-000083
90-000084
90-000085
90-000086
90-000087
90-000094
90-000097
90-000098
90-000099
90-000100
90-000106
90-000108
90-000113
90-000116
90-000118
90-000119
90-000121
90-000122
90-000123
90-000353
90-001487
90-001542
90-001566
90-001580
90-001587
90-003033
90-003044
90-003369
90-005023
90-005027
90-005050
90-005055
90-005062
90-005212
Disease-Free Culture
90-000729
90-000740
90-000741
90-001482
90-001507
90-001510
90-002383
90-002389
90-002390
90-002391
90-003008

...CONTINUED...
Culture/Propagation--Coldwater
Disease-Free Culture
90-003027
90-003702
90-004111
90-004177
90-005095
Economics
90-002390
90-003026
90-005027
Egg Collection
90-001512
90-001518
90-001616
Egg Preservation
90-001616
Egg Production
90-000086
90-001486
90-001495
90-001575
90-001581
90-001585
90-001937
90-002206
90-003009
90-003014
90-003029
90-003040
90-003044
90-003339
90-003545
90-004916
Egg Quality
90-001495
90-001518
90-001581
90-001585
Egg Size
90-003044
Egg Survival
90-001518
Environmental Impacts
90-001492
90-001499
90-001515
90-002080
90-003008
90-003010
90-003011
90-003016
90-003035
90-003613
90-003688
90-005501
Fecundity
90-001550
90-001551
90-003019
Feeding Experiments
90-000084
90-000096
90-000098
90-000099
90-001489
90-001500
90-001506
90-001542
90-001546
90-001547

...CONTINUED...
Culture/Propagation--Coldwater
Feeding Experiments
90-001559
90-001565
90-001580
90-001587
90-003031
90-003039
90-003263
90-004911
90-005027
90-005028
90-005047
90-005051
90-005053
90-005058
Feeds
90-000084
90-000085
90-000086
90-000087
90-000099
90-000100
90-000116
90-000118
90-000119
90-000121
90-000123
90-000145
90-001546
90-001550
90-001558
90-001561
90-001578
90-001581
90-001583
90-002627
90-004906
90-004918
90-005018
90-005020
90-005023
90-005024
90-005025
90-005027
90-005039
90-005044
90-005050
90-005055
90-005065
90-005285
Fertilization
90-001478
90-001512
90-001514
90-001616
90-001626
90-003042
90-003545
Fingerling Production
90-000033
90-001580
Fish Grading
90-004902
Fish Hatchery Effluents
90-003008
90-003010
90-003011
90-003016
90-003035
Fish Kills
90-001977

...CONTINUED...
Culture/Propagation--Coldwater
Food Conversion Efficiency
90-000095
90-001500
90-001542
90-003016
90-005044
90-005404
Fry Production
90-000098
90-001485
90-001559
90-001565
90-001581
90-003038
90-004137
90-005018
90-005028
90-005047
General
90-003041
90-006777
General/Canada: Bay of Fundy
90-000029
Genetic Strains
90-000441
90-003013
90-003022
90-003023
90-004903
90-005451
Genetics
90-000440
90-001479
90-001492
90-001496
90-001504
90-002033
90-002037
90-002053
90-002060
90-002066
90-003015
90-003018
90-003019
90-003020
90-003021
90-003032
90-003042
90-003613
90-003618
90-003631
90-003663
90-003688
90-003693
90-003700
90-003702
90-003709
90-003715
90-004906
90-004917
90-004920
90-004921
90-005213
90-005476
90-005479
90-005501
Growth Hormone
90-003489
Growth Stimulants
90-001491

...CONTINUED...
Culture/Propagation--Coldwater
Growth Stimulants
90-001498
90-004904
90-005213
90-005321
Hatchery Releases
90-004905
Hatchery/Wild Populations
90-000357
90-000462
90-000483
90-001492
90-001542
90-002033
90-002037
90-002080
90-002880
90-003618
90-003688
90-003791
90-004509
90-004905
90-004917
90-005412
90-005501
Hatching
90-001494
90-004916
90-004922
Inbreeding
90-001504
90-002060
90-003688
Incubation
90-003040
90-004909
Incubation Channels
90-001485
Induced Maturation
90-000145
90-001512
90-001759
90-001830
90-002192
90-003007
90-003044
90-003093
90-004913
Induced Smoltification
90-001513
Invertebrate Forage
90-000035
90-000083
90-001499
90-001559
90-001561
90-003956
90-004918
90-005044
Lake Ranching
90-004632
Larvae
90-001997
90-003032
90-003038
90-004914
90-004915
90-005095
Light
90-000034

...CONTINUED...
Culture/Propagation--Coldwater
Light
90-001484
90-001513
90-003025
90-003030
90-003956
90-005047
Maturation
90-001479
90-001480
90-001481
90-001501
90-001502
90-001516
90-002014
90-002186
90-002191
90-003031
90-003039
90-003663
Medication In Diets
90-000145
90-001510
90-001583
90-003027
90-005321
Modeling
90-004914
90-006495
Monosex Culture
90-002073
Mortality Factors
90-000119
90-000120
90-004911
Net-Pen Culture
90-000083
90-001480
90-001488
90-001496
90-003018
90-003020
90-003043
90-004918
Nutrition
90-000083
90-000085
90-000094
90-000098
90-000119
90-000122
90-000123
90-000249
90-000353
90-001495
90-001547
90-001550
90-001551
90-001558
90-001561
90-001575
90-001576
90-001578
90-001581
90-001585
90-001997
90-003104
90-003126
90-004092
90-005018

...CONTINUED...
Culture/Propagation--Coldwater
Ocean Ranching
90-001401
90-001489
90-001492
90-001493
90-002186
90-003017
90-003026
90-003034
90-004410
90-004910
90-004912
90-005499
90-005547
90-005867
90-006365
90-006373
90-006394
Overwintering
90-005101
Oxygen
90-003022
Oxygenation
90-001490
90-003014
90-003022
90-003023
Parasites/Diseases
90-000120
90-000740
90-002401
90-003021
90-004092
90-004137
90-004192
90-004201
90-005989
90-005991
90-006028
Parr-Smolt Transformation
90-001483
90-001489
90-001493
90-001498
90-001508
90-001511
90-001513
90-001517
90-001566
90-001769
90-001831
90-001854
90-001936
90-001975
90-001980
90-003024
90-003037
90-003043
90-003448
90-003618
90-004908
90-005058
Photoperiodism
90-000034
90-001481
90-001484
90-001486
90-001488
90-001497
90-001501

...CONTINUED...
Culture/Propagation--Coldwater
Photoperiodism
90-001508
90-001509
90-001511
90-001516
90-001517
90-001804
90-001936
90-001975
90-001996
90-003030
90-003036
90-003448
90-005047
Pigmenters
90-000122
90-001487
90-001495
90-001561
90-003400
90-004918
90-005025
90-005053
90-005285
Polyculture
90-001010
90-005101
Polyploidy
90-001487
90-001937
90-003007
90-003709
90-003715
Pond Culture
90-000030
90-000035
90-003376
90-003946
90-004509
Poultry Meal
90-005020
Production
90-004902
90-004903
Rearing Density
90-000031
90-002008
90-003022
90-003023
90-003026
90-004503
90-004911
90-004924
90-005404
Recirculating Systems
90-001506
90-003035
90-004914
Reconditioning
90-002053
Reproduction
90-002192
Salinity
90-001488
90-001500
90-002014
90-003013
90-003033
90-003038
90-003039

...CONTINUED...
Culture/Propagation--Coldwater
Salinity
90-003043
90-003555
90-004908
90-005058
Selective Breeding
90-004919
90-004921
Site Suitability
90-001503
Spawning Cycle Regulation
90-001481
90-001484
90-001486
90-001497
90-001501
90-001509
90-001516
90-002053
90-002206
90-003030
90-003031
90-003039
Spawning Substrates
90-001485
90-001494
Sperm Preservation
90-000032
90-001478
90-001616
90-001620
90-001626
Sterilization
90-002073
90-002720
Steroids
90-000145
Stress
90-002008
Survival
90-000031
90-000033
90-001480
90-001489
90-001997
90-003013
90-003026
90-003028
90-003032
90-004503
90-004509
90-004911
90-004920
90-005028
90-006495
Tank Culture
90-000034
90-001483
90-003037
90-003039
Techniques/Hatching Trays
90-001494
Temperature
90-000030
90-001481
90-001482
90-001489
90-001507
90-001510
90-001511

...CONTINUED...
Culture/Propagation--Coldwater
Temperature
90-001517
90-001575
90-001937
90-001977
90-002206
90-003013
90-004201
90-005213
Transportation
90-001010
90-001503
90-001505
90-001588
Triploid Fish
90-005479
Vitamins
90-000249
90-001547
90-001576
90-001578
90-001810
90-003104
90-004092
90-005212
Water Quality
90-000033
90-003010
90-004907
Water Supply
90-003035
Culture/Propagation--General
Aeration
90-001442
90-003173
90-003175
90-003176
Age/Growth
90-000027
Agriculture-Fish Culture
90-000006
Alarm Systems
90-005092
90-005099
Algae Culture
90-003114
90-005036
Ammonia
90-005100
Aquariums
90-000127
90-000128
90-000129
90-000130
90-000131
90-000132
90-000133
90-000135
90-000138
90-000139
90-000141
90-001473
90-001477
90-001590
90-001592
90-001596
90-001601
90-001602
90-001603
90-001607

...CONTINUED...
Culture/Propagation--General
Aquariums
90-001609
90-001612
90-001622
90-002368
90-003135
90-003136
90-003139
90-003149
90-003151
90-003160
90-003167
90-004890
90-005071
Bacteria
90-000017
90-000746
90-000756
90-004900
Benthos
90-000016
Biofiltration
90-001596
90-001602
90-001627
90-003135
90-003167
90-005094
Bird Predation
90-002325
90-003977
90-004889
Brackishwater Culture
90-000021
90-006698
Brood Stock
90-003648
90-003651
90-003669
90-004898
90-004999
Computer Applications
90-001629
90-003169
90-006291
Control/Algae
90-004886
Crayfish
90-001631
Data Bases
90-001629
Diets
90-000103
90-001570
90-005010
90-005019
Disease-Free Culture
90-000722
90-000726
90-000730
90-000736
90-000737
90-000763
90-001622
90-003003
90-003149
90-005091
90-005910
Disinfection
90-001622

...CONTINUED...
Culture/Propagation--General
Economic Value
90-000141
90-001474
90-001475
90-004892
Economics
90-000008
90-000015
90-000022
90-000024
90-000132
90-001417
90-001476
90-003168
90-003171
90-004894
90-004896
Education
90-001473
90-001590
90-006291
Egg Production
90-004516
90-005019
90-005093
Egg Quality
90-001457
90-005019
90-005093
Environmental Impacts
90-000014
90-001477
90-002999
90-003002
90-003005
90-003006
90-004888
90-004889
90-004890
90-004893
90-004895
90-005071
Exotic Species
90-004889
90-004890
90-004893
Exotic Species/United States
90-005071
Extension Services
90-000007
90-005097
Feeders
90-000114
Feeding Experiments
90-000114
90-003122
Feeds
90-000103
90-000883
90-001560
90-001568
90-001570
90-003105
90-003587
90-004896
90-005030
90-005271
90-005407
Fertilization
90-005093

...CONTINUED...
Culture/Propagation--General
Fertilization/Soil and Water
90-000008
Filtration Systems
90-001607
90-001609
90-002545
90-005088
90-005089
90-005091
90-005094
90-005098
90-005906
Fingerling Production
90-000008
Fish Hatchery Effluents
90-002999
90-004888
90-004893
90-004895
Fish Silage
90-001560
Food Conversion Efficiency
90-000103
Forage Production
90-000124
90-001467
90-003114
Frog Control
90-003170
Gas Removal
90-000016
90-003176
90-005102
General
90-000006
90-000025
90-001476
General/Hungary
90-003000
General/Mexico
90-001474
General/New Zealand
90-004427
General/South Africa
90-003001
General/United States
90-000019
Genetics
90-000473
90-001619
90-003005
90-003633
90-003651
90-003681
Handbooks
90-000015
90-001476
Hatchery Design
90-000021
90-001601
Hatchery/Wild Populations
90-000766
90-001425
90-003005
90-003006
90-004999
Hatching
90-001625
Inbreeding
90-003648

...CONTINUED...
Culture/Propagation--General
Inbreeding
90-003669
Induced Maturation
90-005090
Invertebrate Forage
90-000124
Lake Ranching
90-004901
Livestock-Fish Culture
90-004894
Marketing
90-000011
90-000015
90-000022
Medication In Diets
90-004955
90-005927
Modeling
90-000020
90-003168
90-003169
90-003171
90-004901
90-005102
90-006441
90-006490
Monosex Culture
90-001619
Net-Pen Culture
90-006630
Nutrition
90-000027
90-000103
90-000104
90-005019
90-005407
Ocean Ranching
90-006389
Oxygen
90-000018
90-003176
Oxygenation
90-000144
90-001607
90-001612
90-005102
Ozone
90-001622
90-003149
Parasites/Diseases
90-000026
90-000725
90-000733
90-000746
90-000756
90-000757
90-000766
90-000883
90-001592
90-002368
90-003002
90-003136
90-004094
90-005098
90-005906
90-005911
90-005929
90-005947
Plankton
90-000028

...CONTINUED...
Culture/Propagation--General
Plankton
90-006645
Plankton Control
90-000028
Planning
90-000023
90-000131
90-004892
Polyculture
90-000020
Polyploidy
90-003672
Pond Culture
90-000008
90-000013
90-000014
90-000016
90-000017
90-000018
90-000021
90-000028
90-000746
90-000756
90-000899
90-001533
90-001623
90-001624
90-001631
90-003000
90-003170
90-003175
90-004900
90-006630
90-006645
Pond Liners
90-004274
Pond Restoration
90-001623
Power Plant Effluents
90-003168
90-003171
Predator Control
90-004889
Production
90-000010
90-000011
90-000015
90-000023
90-000024
90-000027
90-000930
90-001475
90-001624
90-004891
90-004897
90-006345
90-006441
Raceway Culture
90-005089
Rearing Density
90-000010
90-000018
90-004901
Recirculating Systems
90-001596
90-001601
90-001603
90-001609
90-001624
90-003160

...CONTINUED...
Culture/Propagation--General
Recirculating Systems
90-005100
Regulations/General
90-000015
90-004889
90-004893
Rice-Fish Culture
90-006630
Selective Breeding
90-004999
Sex Reversal
90-001619
Site Suitability
90-000009
90-000011
90-000015
90-000021
90-004889
90-004893
90-004899
90-006698
Spawning Cycle Regulation
90-002108
Sterilization
90-001619
Techniques/General
90-000139
Techniques/Misc.
90-005092
90-005097
Techniques/Monosex Culture
90-001632
Techniques/Oxygen
90-003176
Techniques/Solar Heating
90-001601
Techniques/Temperature Control
90-000143
90-003151
90-003168
90-003171
Vitamins
90-003587
Water Quality
90-000013
90-000014
90-000015
90-000899
90-001596
90-001607
90-001627
90-002999
90-003002
90-003175
90-004888
90-004950
90-005098
90-005100
Water Supply
90-001533
90-002999
90-005089
Culture/Propagation--Invertebrates
Artemia
90-000081
90-001579
90-003118
90-005017
Biofiltration
90-001602

...CONTINUED...
Culture/Propagation--Invertebrates
Copepoda
90-001567
Crayfish
90-001561
Forage Production
90-000012
90-000081
90-000124
90-001548
90-001556
90-001557
90-001561
90-001567
90-001571
90-001579
90-003080
90-003116
90-003118
90-003124
90-003163
90-005017
90-005022
90-005036
90-005038
90-005064
Molluscs
90-001602
Polyculture
90-004927
90-004934
Rotifers
90-000012
90-001548
90-001556
90-001557
90-001571
90-003116
90-003124
90-005022
90-005036
90-005038
90-005064
Shrimp Culture
90-004927
90-004934
Culture/Propagation--Marine
Age/Growth
90-000070
90-001541
90-001553
90-003089
90-003097
90-003121
90-003797
90-004945
90-004997
90-005006
90-005034
90-005035
Algae Culture
90-003143
90-003163
Anesthetics
90-001915
Appetite Stimulants
90-000102
90-003129
Aquariums
90-000075
90-000134

...CONTINUED...
Culture/Propagation--Marine
Aquariums
90-001540
90-001541
90-001598
90-001604
90-001606
90-002129
90-002213
90-002263
90-003141
90-003143
90-003144
90-003145
90-003146
90-003147
90-003150
90-003163
90-003166
90-005077
90-005082
90-005085
Bacteria
90-000073
90-001534
90-001564
Biofiltration
90-001598
90-003143
Brackishwater Culture
90-001539
90-003092
90-004996
Brood Stock
90-000070
90-001537
90-003097
90-005000
Cage Culture
90-000068
90-000773
90-001523
90-003012
90-003090
90-003091
90-003099
90-003101
90-004108
90-004905
Cannibalism
90-005096
Computer Applications
90-001621
Diets
90-000088
90-000112
90-000291
90-000337
90-001586
90-003117
90-003121
90-003516
90-005015
90-005021
90-005038
90-005049
Disease-Free Culture
90-002399
Economics
90-004995
90-004996

...CONTINUED...
Culture/Propagation--Marine
Economics
90-004998
90-006387
Egg Production
90-001839
90-003094
90-003102
90-004994
90-005002
90-005004
Egg Quality
90-000243
90-003092
Environmental Impacts
90-001540
90-003095
90-006724
Exploitation Rates
90-006342
Extension Services
90-003101
90-004995
Feeders
90-001621
Feeding Attractants
90-005034
90-005046
Feeding Experiments
90-000069
90-000092
90-000110
90-001553
90-001557
90-001586
90-002263
90-003129
90-005016
90-005032
90-005046
90-005048
90-005056
90-005328
Feeds
90-000088
90-000105
90-000112
90-001548
90-001553
90-003130
90-003143
90-005016
90-005022
90-005032
90-005035
90-005046
90-005049
90-005328
Fertilization
90-003458
Fertilization/Soil and Water
90-000092
Filtration Systems
90-001598
Fingerling Production
90-003097
90-004993
Fish Grading
90-005096
Fish Kills
90-005920

...CONTINUED...
Culture/Propagation--Marine
Fish Silage
90-003130
Food Conversion Efficiency
90-003089
90-005035
Foods/Feeding
90-005021
Fry Production
90-001523
90-003102
90-004993
90-004994
90-005003
90-005006
General
90-004976
90-005007
90-005009
General/Ecuador
90-000074
General/Japan
90-000076
General/Panama
90-000074
General/Philippines
90-000074
Genetics
90-005000
Groundfish
90-002738
Harvest
90-001389
Hatchery Releases
90-004905
Hatchery/Wild Populations
90-000071
90-001693
90-003095
90-003416
90-003777
90-004905
90-005742
90-006724
Hatching
90-003092
History
90-006342
Hooking/Handling Mortality
90-005069
Hormones
90-005001
Hybridization
90-001537
90-003641
Inbreeding
90-003712
Incubation
90-005002
90-005004
Induced Maturation
90-001839
90-002027
90-002029
90-003092
90-003098
90-005001
90-005005
90-005424
Invertebrate Forage
90-000092

...CONTINUED...
Culture/Propagation--Marine
Invertebrate Forage
90-000291
90-001548
90-001557
90-001564
90-001606
90-003103
90-003118
90-003163
90-005005
90-005015
90-005016
90-005017
90-005022
90-005033
90-005035
90-005038
90-005056
Larvae
90-000069
90-000072
90-000088
90-000105
90-000110
90-000112
90-001557
90-001564
90-001606
90-001621
90-001658
90-001802
90-002027
90-003094
90-003096
90-003098
90-003102
90-003130
90-003290
90-003437
90-003516
90-004997
90-005004
90-005005
90-005015
90-005016
90-005017
90-005022
90-005033
90-005038
90-005153
90-005800
Laws/Law Enforcement
90-003095
Mangroves
90-000074
90-001535
Marketing
90-004996
90-004998
Net-Pen Culture
90-005048
Nutrient Control
90-001538
Nutrients
90-001538
Nutrition
90-000110
90-000112
90-003437
90-005033

...CONTINUED...
Culture/Propagation--Marine
Ocean Ranching
90-005008
Oxygen
90-001536
Parasites/Diseases
90-000773
90-001534
90-002393
90-002432
90-003012
90-004108
90-004171
90-005904
90-005914
90-005920
90-006019
Photoperiodism
90-000243
Pollution
90-001604
Polyculture
90-005096
Pond Culture
90-001533
90-001536
90-003097
90-003100
90-005056
Population Studies
90-001389
Production
90-000068
90-002920
Rearing Density
90-000068
90-003090
90-003099
90-005003
Recirculating Systems
90-001538
90-001553
90-001598
90-003174
Regulations/General
90-004995
Salinity
90-001523
90-003091
90-003092
90-003094
90-005006
90-005069
Site Suitability
90-001535
90-001539
90-003100
Spawning Cycle Regulation
90-000243
Spawning Substrates
90-005800
Stock Assessment
90-001389
Survival
90-000072
90-005006
90-005015
90-005038
90-005067
Tank Culture
90-000072

...CONTINUED...
Culture/Propagation--Marine
Tank Culture
90-000088
90-001534
Techniques/Light
90-001621
Techniques/Oxygen
90-001536
Techniques/Water Quality
90-001621
Temperature
90-003091
90-003595
90-004997
90-005004
Transportation
90-005067
90-005069
Vitamins
90-000105
Water Quality
90-000073
90-001604
90-003174
Water Supply
90-001533
Culture/Propagation--Warmwater
Aeration
90-000036
90-001524
90-004966
Age/Growth
90-000045
90-000051
90-000053
90-001526
90-001976
90-003046
90-003048
90-003052
90-003058
90-003061
90-003069
90-003072
90-003078
90-003110
90-003717
90-004936
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90-004960
90-004975
90-004981
90-004987
90-004988
90-004990
90-004991
90-005013
90-005059
90-005060
90-005716
90-005819
Agriculture-Fish Culture
90-000042
Algae Culture
90-003075
90-005066
Amino Acids
90-003107
Ammonia
90-000064
90-004925

...CONTINUED...
Culture/Propagation--Warmwater
Ammonia
90-004970
90-004977
Aquariums
90-000602
90-000604
90-000608
90-001589
90-003137
90-003138
90-003140
90-003142
90-003153
90-003157
90-003158
90-003159
90-003161
90-003162
90-003164
90-003165
90-003760
90-003767
90-004046
90-004971
90-005072
90-005075
90-005076
90-005079
90-005080
90-005081
90-005086
90-005087
90-005633
90-005647
Bacteria
90-000077
90-000748
90-000749
Benthos
90-000067
Biofiltration
90-004977
Brackishwater Culture
90-000052
90-000053
90-000360
90-001524
90-001531
90-001950
90-003050
90-003051
90-003056
90-003062
90-003067
90-003077
90-003083
90-003109
90-003125
90-004927
90-004930
90-004940
90-004963
90-004974
90-004975
90-004987
90-004988
Brood Stock
90-000052
90-000989
90-001522

...CONTINUED...
Culture/Propagation--Warmwater
Brood Stock
90-001528
90-002011
90-002200
90-003049
90-003058
90-003059
90-003066
90-003072
90-003716
90-004990
90-005716
Cage Culture
90-000039
90-000062
90-000066
90-001318
90-001338
90-001340
90-001523
90-001656
90-003048
90-003050
90-003077
90-003110
90-003585
90-004219
90-004940
90-004942
90-004947
90-004969
90-004988
Carcass Traits
90-003131
Computer Applications
90-004989
Cottonseed
90-001545
90-001574
Crayfish
90-000146
Diets
90-000043
90-000044
90-000055
90-000056
90-000061
90-000063
90-000082
90-000089
90-000115
90-000117
90-000126
90-001544
90-001554
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90-003108
90-003109
90-003113
90-004957
90-004988
90-005012
90-005029
90-005042
90-005043
90-005063
90-005300
90-005777
Disease-Free Culture
90-000036

...CONTINUED...
Culture/Propagation--Warmwater
Disease-Free Culture
90-000802
90-002371
90-002392
Economics
90-000040
90-000054
90-000066
90-001519
90-001529
90-003045
90-004930
90-004934
90-004937
90-004953
90-004964
90-004966
90-004968
90-004980
90-005013
Education
90-004937
90-004962
Egg Production
90-003050
90-003057
90-003069
90-003070
90-004857
90-004946
90-004951
90-004956
Environmental Impacts
90-000039
90-000054
90-000059
90-002727
Extension Services
90-000038
90-003053
90-004937
90-004962
Feeding Attractants
90-005041
Feeding Experiments
90-000040
90-000053
90-000090
90-000107
90-000117
90-001552
90-001584
90-001617
90-003052
90-003059
90-003107
90-003108
90-003109
90-003110
90-003112
90-003115
90-003119
90-003125
90-003137
90-003352
90-004936
90-004966
90-004991
90-005012
90-005013

...CONTINUED...
Culture/Propagation--Warmwater
Feeding Experiments
90-005026
90-005031
90-005054
90-005059
90-005066
90-005201
Feeds
90-000079
90-000080
90-000089
90-000090
90-000091
90-000093
90-000101
90-000107
90-000111
90-000125
90-000126
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90-001543
90-001544
90-001545
90-001549
90-001554
90-001555
90-001562
90-001563
90-001569
90-001572
90-001573
90-001574
90-001577
90-001582
90-003067
90-003111
90-003112
90-003120
90-003127
90-003128
90-003132
90-004934
90-004943
90-005026
90-005031
90-005037
90-005040
90-005041
90-005052
90-005057
90-005061
90-005215
Fertilization
90-003056
Fertilization/Soil and Water
90-000044
90-000047
90-000061
90-000276
90-001524
90-001525
90-001527
90-003074
90-003075
90-003076
90-003352
90-004925
90-004929
90-004933
90-004959

...CONTINUED...
Culture/Propagation--Warmwater
Fertilization/Soil and Water
90-004979
90-004992
Fingerling Production
90-000040
90-000043
90-000055
90-000056
90-000058
90-000061
90-000082
90-000101
90-000126
90-001544
90-001577
90-001584
90-003057
90-003068
90-003125
90-004948
90-004981
90-004992
90-005052
Fish Control/Removal
90-006361
Fish Grading
90-003172
Fish Kills
90-002562
90-003004
Fish Silage
90-001577
Food Conversion Efficiency
90-000053
90-000080
90-001554
90-003109
90-003110
90-003119
90-004975
90-005011
90-005014
Foods/Feeding
90-005029
90-005777
Fry Production
90-000040
90-000050
90-000057
90-000780
90-001523
90-001552
90-001573
90-001582
90-001584
90-003050
90-003059
90-003064
90-003069
90-003070
90-003080
90-003108
90-004946
90-004951
90-005060
90-005373
General
90-001318
90-003054
90-004928

...CONTINUED...
Culture/Propagation--Warmwater
General
90-004935
90-004972
90-004973
90-004982
General/Denmark
90-004944
General/Indonesia
90-004984
General/Ivory Coast
90-003053
Genetic Strains
90-001528
90-003046
90-003049
90-003065
90-003086
90-003138
90-003679
90-005434
90-005477
Genetics
90-000036
90-000454
90-000465
90-000472
90-001630
90-002077
90-002081
90-003048
90-003058
90-003079
90-003082
90-003610
90-003674
90-003706
90-003713
90-003716
90-003719
90-003726
90-003727
90-004986
90-005434
Geothermal Water
90-003055
Growth Stimulants
90-000045
90-001976
90-004978
90-005011
Hapas
90-000048
90-000061
90-004946
Hardness
90-004949
Hatchery Releases
90-002727
Hatchery/Wild Populations
90-000052
90-003046
90-003325
90-004953
90-005819
Hatching
90-003064
90-004956
Hooking/Handling Mortality
90-005068
Hooking/Handling Stress
90-005068

...CONTINUED...
Culture/Propagation--Warmwater
Hormones
90-000046
90-004955
90-004975
90-004978
Hybridization
90-000065
90-003046
90-003048
90-003062
90-003072
90-003081
90-003086
90-003717
90-004948
90-004954
90-004960
90-004981
90-004982
90-005054
Inbreeding
90-003049
90-003674
Incubation
90-003069
90-003070
Induced Maturation
90-003047
90-003073
90-003315
90-003571
90-004926
90-004931
90-004932
90-004955
90-004985
90-005189
Invertebrate Forage
90-000077
90-000078
90-000146
90-001525
90-003080
90-003112
90-003115
90-003120
90-004992
90-005037
90-005054
90-005057
90-005060
Lake Ranching
90-004627
Larvae
90-001555
90-001582
90-001656
90-003060
90-003112
90-004936
90-004949
90-004963
90-005026
90-005031
90-005037
90-005054
90-005057
Life History/General
90-005777
Livestock-Fish Culture
90-001527

...CONTINUED...
Culture/Propagation--Warmwater
Livestock-Fish Culture
90-004927
90-004957
90-004964
Manure
90-000090
90-004929
90-004957
Marketing
90-000233
90-004930
Maturation
90-000052
90-003325
90-004940
Medication In Diets
90-000036
90-000045
90-000046
90-000051
90-001976
90-003068
90-004975
Modeling
90-000066
90-001338
Monosex Culture
90-000048
90-000053
90-001532
90-001632
90-003066
90-003085
90-003088
90-004954
Net-Pen Culture
90-000059
90-000061
90-000062
90-001322
90-004939
90-004942
Nutrition
90-000082
90-000107
90-000115
90-000727
90-001543
90-001549
90-001569
90-001577
90-003067
90-003107
90-003119
90-003123
90-003131
90-003585
90-004943
90-005013
90-005014
90-005045
90-005057
Overwintering
90-003546
90-004943
90-004986
90-005101
Oxygen
90-000064
Parasites/Diseases
90-000723

...CONTINUED...
Culture/Propagation--Warmwater
Parasites/Diseases
90-000727
90-000731
90-000735
90-000742
90-000748
90-000749
90-000779
90-000780
90-000789
90-001569
90-001887
90-002376
90-002382
90-004143
90-004144
90-004159
90-004193
90-004199
90-004206
90-004219
90-004943
90-004967
90-005900
90-005936
90-006124
Phosphorus
90-000064
Photoperiodism
90-004991
Plankton
90-000041
90-000047
Planning
90-001529
Polyculture
90-000036
90-000060
90-001615
90-003061
90-003106
90-004927
90-004929
90-004934
90-004938
90-004964
90-005101
90-006361
Polyploidy
90-001532
90-003066
90-003071
90-003079
90-005014
90-005438
Pond Culture
90-000036
90-000041
90-000044
90-000047
90-000048
90-000049
90-000050
90-000057
90-000064
90-000067
90-000078
90-000276
90-000727
90-000748

...CONTINUED...
Culture/Propagation--Warmwater
Pond Culture
90-000789
90-000802
90-001519
90-001525
90-001530
90-001615
90-001617
90-002392
90-003004
90-003045
90-003048
90-003052
90-003056
90-003060
90-003061
90-003074
90-003076
90-003084
90-003106
90-003125
90-004159
90-004925
90-004933
90-004939
90-004957
90-004958
90-004959
90-004963
90-004974
90-004979
90-004992
90-005936
90-006361
Poultry Meal
90-004927
Production
90-001525
90-001530
90-001615
90-003045
90-003057
90-003067
90-003075
90-003077
90-004933
90-004958
Raceway Culture
90-003062
90-003087
Rearing Density
90-000050
90-000062
90-000067
90-000078
90-001617
90-003048
90-003052
90-003075
90-003087
90-003767
90-004938
90-004948
90-004958
90-004966
90-004981
90-004988
Recirculating Systems
90-003087
90-004143

...CONTINUED...
Culture/Propagation--Warmwater
Recirculating Systems
90-004941
90-004965
90-004977
Rice-Fish Culture
90-000042
90-000054
90-001520
90-001617
90-002811
90-003128
90-004959
90-005040
Salinity
90-000070
90-000117
90-001523
90-002011
90-003081
90-003082
90-003110
90-004949
90-004987
Selective Breeding
90-003066
90-005434
Sewage Effluents
90-004979
Sex Determination
90-000046
Sex Ratios
90-000048
90-000050
90-003085
Sex Reversal
90-000051
90-003066
90-003085
90-004946
90-004975
90-004978
Site Suitability
90-000066
90-003051
90-004930
90-004983
Spawning Cycle Regulation
90-000037
90-000235
90-004931
Sperm Preservation
90-001618
90-001628
Sterilization
90-001532
Steroids
90-000046
Stress
90-004961
Stunting
90-003078
Survival
90-000049
90-000056
90-000057
90-001522
90-001525
90-003052
90-003064
90-003069

...CONTINUED...
Culture/Propagation--Warmwater
Survival
90-003079
90-003082
90-003717
90-004936
90-004960
90-004961
90-004990
90-005060
90-005068
90-005438
90-005716
Tank Culture
90-000055
90-000101
90-000749
90-003059
90-003064
90-003115
90-004952
Taste and Odor Problems
90-003063
Techniques/General
90-003055
Techniques/Solar Heating
90-004941
Temperature
90-000064
90-001887
90-003055
90-003069
90-003070
90-003084
90-003483
90-003623
90-003713
90-004986
90-004991
90-005014
Transportation
90-003133
90-003134
90-003533
90-004961
90-005068
Vitamins
90-000126
90-001549
90-002392
90-005042
Water Quality
90-000064
90-000091
90-000727
90-001524
90-003076
90-003087
90-004949
90-004950
90-004965
90-004969
90-004989
Water Supply
90-000050
Endangered/Threatened Species
California
90-006786
Canada
90-006783
Crenichthys nevadae
90-004876

...CONTINUED...
Endangered/Threatened Species
Culture/Propagation
90-003669
90-006388
Europe: Danube River and Basin
90-001465
Extinction
90-002990
90-002991
Gila ditaenia
90-006785
Gulf of Mexico
90-005677
Kentucky
90-005832
Latimeria chalumnae
90-002988
North America
90-002992
90-004874
Sri Lanka
90-004875
United States
90-006270
Environmental Factors
Acidification
90-000270
90-001637
90-001811
90-001902
90-002556
90-002557
90-003197
90-003590
90-004405
90-005231
90-005327
Alkalinity
90-000842
90-002556
90-003029
Altitude
90-001201
90-001848
Ammonia
90-006104
Biological Indicators
90-001085
90-001450
90-004777
90-006061
90-006252
90-006306
90-006319
90-006321
90-006326
90-006486
90-006585
90-006610
90-006614
90-006618
90-006636
90-006637
Calcium
90-005904
Canopy
90-001072
90-004667
90-006607
90-006674
Caves
90-003694

...CONTINUED...
Environmental Factors
Caves
90-003892
Climate
90-000588
90-000973
90-001290
90-001371
90-002201
90-002327
90-002532
90-002709
90-002710
90-002838
90-003084
90-003180
90-004034
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90-005106
90-005107
90-005120
90-005592
90-005657
90-005809
90-005862
90-005870
90-005871
90-006093
90-006253
90-006318
90-006319
90-006330
90-006446
90-006457
90-006485
Conductivity
90-000231
Currents
90-001371
90-001402
90-002084
90-002122
90-002170
90-003547
90-003827
90-004573
90-005869
Detritus
90-002236
90-002238
90-003796
90-003932
90-003933
90-004405
90-006307
90-006582
90-006674
90-006723
Dewatering
90-002561
90-003703
90-005699
Drift Algae
90-002919
90-002959
90-003796
Drought
90-002538
90-005435
90-005699
90-006636

...CONTINUED...
Environmental Factors
Drought
90-006637
El Nino
90-002798
90-003178
90-003979
90-005662
Embryology
90-001932
Erosion
90-001059
90-001072
Floods
90-001092
90-001242
90-002538
90-003188
90-004044
90-004452
90-006616
90-006618
90-006636
90-006637
Flotsam
90-004661
Flow Regimes
90-002084
90-003703
90-004573
90-004671
90-005521
90-005662
90-005707
90-006306
90-006632
Food Supply
90-000528
90-000618
90-000658
90-000666
90-001371
90-001770
90-002084
90-002119
90-002202
90-002844
90-003933
90-003997
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90-005681
90-005702
90-005749
90-005761
90-005774
90-006074
90-006123
90-006501
90-006532
General
90-001102
90-002671
Geothermal Water
90-002142
90-002989
90-004876
Glaciers
90-002321
Groundwater
90-004274

...CONTINUED...
Environmental Factors
Hardness
90-000379
90-000882
90-001101
90-001825
90-005346
Hydrography
90-002873
Hypoxia
90-003029
Ice
90-005515
90-006693
Iodine
90-000306
Latitude
90-003256
90-003815
90-004034
90-005628
90-005795
90-006287
Light
90-000004
90-000034
90-000072
90-000176
90-000268
90-000500
90-000509
90-000513
90-000875
90-001756
90-001782
90-001804
90-001867
90-001932
90-001996
90-002084
90-002109
90-002119
90-002448
90-002752
90-003244
90-003389
90-003401
90-003544
90-003765
90-003948
90-004860
90-005267
90-005299
90-005339
90-005510
90-005518
90-005538
90-005564
Lunar Influences
90-001363
90-001831
90-001929
90-001994
90-002102
90-002750
90-005678
90-005719
90-005727
Magnesium
90-005904
Modeling
90-001072

...CONTINUED...
Environmental Factors
Modeling
90-001092
Monsoons
90-001159
90-002228
Noise
90-003037
Nutrients
90-006723
Oxygen
90-000231
90-000236
90-000421
90-001373
90-001633
90-001848
90-002308
90-003029
90-003412
90-003668
90-003789
90-004271
90-005222
90-005261
90-005435
90-006564
90-006565
Ozone
90-002710
pH
90-000270
90-000271
90-000304
90-000355
90-000379
90-000425
90-001825
90-001902
90-002099
90-003445
90-003590
90-003803
90-004391
90-005346
90-006582
Photoperiodism
90-000034
90-000176
90-000216
90-000243
90-000319
90-000364
90-000365
90-000509
90-001481
90-001484
90-001486
90-001497
90-001501
90-001508
90-001509
90-001511
90-001516
90-001517
90-001633
90-001752
90-001804
90-001822
90-001890
90-001932

...CONTINUED...
Environmental Factors
Photoperiodism
90-001936
90-001994
90-002087
90-003036
90-003428
90-003431
90-003785
90-003811
90-003943
90-004053
90-004913
90-005181
Precipitation
90-000345
90-000962
90-001078
90-002881
90-002903
90-002905
Pressure Effects
90-000354
90-001981
90-003383
90-004183
Radiation
90-000875
90-003496
Salinity
90-000217
90-000261
90-000289
90-000294
90-000306
90-000321
90-000333
90-000340
90-000346
90-000350
90-000360
90-000381
90-000392
90-000512
90-000666
90-000916
90-001053
90-001360
90-001373
90-001685
90-001764
90-001804
90-001823
90-001827
90-001832
90-001878
90-001907
90-001909
90-001925
90-001931
90-001974
90-001986
90-001996
90-002011
90-002014
90-002025
90-002052
90-002647
90-002660
90-002989
90-003033

...CONTINUED...
Environmental Factors
Salinity
90-003043
90-003081
90-003082
90-003094
90-003328
90-003329
90-003348
90-003405
90-003409
90-003478
90-003480
90-003538
90-003793
90-003794
90-003803
90-004057
90-004316
90-004466
90-004497
90-004703
90-005132
90-005326
90-005379
90-005415
90-005537
90-005581
90-005810
90-006026
90-006144
90-006364
90-006367
90-006368
Season
90-000002
90-000096
90-000261
90-000305
90-000417
90-000509
90-000561
90-000606
90-000610
90-000612
90-000652
90-000656
90-000667
90-000794
90-001078
90-001169
90-001184
90-001357
90-001363
90-001486
90-001493
90-001542
90-001729
90-001731
90-001752
90-001770
90-001823
90-001827
90-001837
90-001927
90-001949
90-001960
90-001980
90-001986
90-002086
90-002132

...CONTINUED...
Environmental Factors
Season
90-002221
90-002228
90-002248
90-002251
90-002271
90-002411
90-002448
90-002612
90-002797
90-002921
90-003043
90-003376
90-003426
90-003451
90-003479
90-003490
90-003505
90-003521
90-003767
90-003780
90-003811
90-003861
90-003870
90-003910
90-003915
90-004235
90-004787
90-005181
90-005253
90-005276
90-005301
90-005490
90-005521
90-005712
90-005720
90-005735
90-005743
90-005745
90-005749
90-005768
90-005795
90-006059
90-006138
90-006191
90-006396
90-006493
90-006508
90-006695
Sedimentation
90-001059
90-005714
Snow
90-000842
90-002479
90-004264
90-004676
Spawning Substrates
90-000599
90-003895
90-005512
90-005587
90-005685
90-005707
90-005710
90-005714
90-005729
Substrate Composition
90-005685
90-005800

...CONTINUED...
Environmental Factors
Temperature
90-000216
90-000224
90-000225
90-000231
90-000236
90-000248
90-000263
90-000287
90-000333
90-000341
90-000363
90-000364
90-000365
90-000379
90-000383
90-000398
90-000494
90-000588
90-000618
90-000639
90-000643
90-000658
90-000666
90-000667
90-000897
90-000980
90-001013
90-001053
90-001115
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90-001481
90-001511
90-001517
90-001633
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90-001761
90-001794
90-001937
90-001974
90-002025
90-002116
90-002119
90-002202
90-002206
90-002287
90-002292
90-002364
90-002448
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90-002561
90-002619
90-002807
90-002838
90-002844
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90-003291
90-003307
90-003335
90-003340
90-003341
90-003371
90-003383
90-003392
90-003431
90-003445

...CONTINUED...
Environmental Factors
Temperature
90-003449
90-003451
90-003484
90-003550
90-003559
90-003623
90-003668
90-003742
90-003765
90-003788
90-003793
90-003807
90-003815
90-003839
90-003885
90-003989
90-003997
90-004052
90-004055
90-004057
90-004647
90-004648
90-004702
90-004703
90-005103
90-005105
90-005106
90-005107
90-005187
90-005249
90-005266
90-005276
90-005294
90-005376
90-005381
90-005396
90-005532
90-005582
90-005657
90-005681
90-005686
90-005693
90-005809
90-006144
90-006319
90-006501
90-006564
90-006565
90-006632
90-006673
Tides
90-001533
90-001770
90-003772
90-005712
90-005727
90-006678
Turbidity
90-001863
90-002881
90-002882
90-002899
90-003750
90-006564
90-006678
Volcanoes
90-001125
90-002899
90-003177

...CONTINUED...
Environmental Factors
Water Level Fluctuations
90-002185
90-003690
Waterfalls
90-005444
Waves
90-002955
90-004807
Weather
90-000582
90-004989
90-005714
Wind
90-001115
90-002792
90-004061
Winter
90-000379
90-000700
90-001370
90-002217
90-004055
90-004943
90-005101
90-005266
90-005276
90-005376
Fish Control/Removal
Air Bubblers
90-003761
Barriers
90-003761
Chemical Reclamation
90-000947
90-002715
90-002846
90-006128
90-006361
90-006436
90-006541
Crayfish
90-001631
Lamprey Control
90-002106
90-002715
90-004592
Modeling
90-006436
Nets/Fyke Nets
90-006362
Shark Protection
90-004492
Fish Kills
Acidification
90-006094
Algal Blooms
90-003004
Drawdowns
90-002771
General/California
90-000865
General/Europe
90-000866
Insecticides
90-001604
Oxygen
90-004310
Parasites/Diseases
90-004103
90-004171

...CONTINUED...
Fish Kills
Parasites/Diseases
90-004306
90-005920
Pollution
90-000867
90-002585
90-004631
90-006091
90-006092
Red Tides
90-000864
90-002610
90-003196
90-004305
90-004307
90-004308
90-004309
90-004845
Salinity
90-004307
Storms
90-006092
Summerkill
90-002561
90-004310
90-006095
Temperature
90-002561
90-004310
Toxic Algae
90-002996
90-004307
Turbines
90-001009
90-002759
Winterkill
90-000030
90-000700
90-001129
90-001134
90-001977
90-002217
90-002562
90-006093
Fish Lists/Keys
Acanthuridae
90-000207
Africa: Lake Tanganyika
90-004026
Anguilliformes
90-000698
Antarctica
90-005837
Apogonidae
90-002310
Arizona: Lake Havasu
90-001339
Atlantic Ocean, North
90-002361
Australia: Morton Island
90-005849
Australia: Queensland
90-004029
90-005849
Austria
90-000685
Bathychaunax
90-002345
Belgium: Meuse River
90-001236

...CONTINUED...
Fish Lists/Keys
Belize
90-002304
Blenniidae
90-002351
Brazil
90-005605
California
90-001275
90-004019
California: Sacramento River
90-001256
California: San Joaquin River
90-001256
Canada
90-006783
Canada: Maritime Provinces
90-002361
Canada: Ontario
90-001166
Carangidae
90-005882
Caribbean Area
90-005839
Catostomidae
90-005892
Channichthyidae
90-004087
Chile
90-002316
Chiloglanis
90-002359
China
90-000698
Cichlidae
90-002304
90-004026
Cobitidae
90-004046
Coral Reefs
90-001409
Costa Rica
90-000682
Cottus
90-004040
Curimata
90-000720
Cyclopteridae
90-000708
Czechoslovakia
90-004024
90-005847
Denmark: Gudenaa River
90-001255
Dictionaries/Languages
90-002323
Endangered/Threatened Species
90-002992
90-004874
England
90-000683
England: Mersey River
90-001260
England: River Tees
90-001303
England: Winterbourne Stream
90-001221
Europe: Pyrenees Region
90-001270
Europe: Rhine River and Basin
90-001247

...CONTINUED...
Fish Lists/Keys
Europe: Rhine River and Basin
90-001300
Florida
90-001415
90-002859
Florida: Indian River Lagoon
90-005830
France: River Lot
90-001235
General
90-002676
Glandulocauda
90-004076
Gobiidae
90-002351
90-002354
90-004068
Great Britain
90-005883
Greece
90-004068
Gulf of Mexico
90-002320
90-004047
90-005891
Heterobranchus
90-004084
Hypostomus
90-005890
India
90-000684
Indian Ocean
90-002322
Indonesia
90-001333
Iraq
90-005827
Ireland: Caragh River
90-001258
Ireland: Shannon River
90-001261
Ireland: Suir River
90-001262
Italy: Po River
90-001233
Japan: Hokkaido
90-004013
Kentucky, Western
90-004020
Larval Fish
90-001339
90-004014
90-004075
90-004087
Macquarie Island
90-005835
90-005857
Malaysia
90-005843
Mariana Islands
90-000689
Mediterranean Region
90-001409
90-004022
Mexico: Aguascalientes
90-002305
Mexico: Colima
90-004031
Mexico: Jalisco
90-004031

...CONTINUED...
Fish Lists/Keys
Mimagoniates
90-004076
Minnesota
90-002321
Moridae
90-002363
Morocco
90-005846
Netherlands: Meuse River
90-001300
Nevada
90-001275
Nigeria
90-001317
North America
90-004874
Norway: Glama River
90-001293
Pachycara
90-002339
Pacific Ocean, North
90-004075
Pacific Ocean, South
90-002312
90-004014
Panama
90-004018
Parablennius
90-005875
Pennsylvania
90-005829
Percophidae
90-005852
Phallostethidae
90-002355
Poland: Dunajec River
90-001265
Polyipnus
90-002347
Portugal
90-000679
Psectrogaster
90-004085
Pseudocurimata
90-000719
Rexea
90-002356
Scotland
90-002323
90-005855
Sea of Japan
90-002351
Sea of Okhotsk
90-002351
Sebastes
90-004028
Sebastolobus
90-004028
South Africa
90-000712
South Africa: Mbashe River
90-004038
South Africa: Mkuze Swamp
90-004044
South Africa: Mtata River
90-004037
South America
90-000720
Spain: Llobregat River
90-001284

...CONTINUED...
Fish Lists/Keys
Sweden: Glama River
90-001293
Sweden: Ronnea River
90-001213
Torquigener
90-000712
United States, Eastern
90-004039
United States: Mississippi River and Basin
90-004071
Utah
90-001275
Venezuela
90-004041
Virginia: Mattaponi River
90-005831
Wales: Ebbw River
90-001240
Wales: Wye River
90-001239
Weddell Sea
90-005837
West Germany: Neckar River
90-001281
Whalefishes
90-002320
90-002357
Wisconsin: Fox River
90-002868
Yellow Sea and Area
90-002351
Fish Passage
Canals
90-006362
Culverts
90-004540
90-004541
90-006362
90-006426
90-006430
Dams
90-001010
90-002760
90-004542
90-004543
90-004672
90-004677
90-005864
90-006427
90-006428
90-006429
90-006431
90-006606
Escapement
90-004794
Fishways
90-001008
90-004543
90-006426
90-006427
90-006428
90-006429
90-006431
Mortality Rates
90-002759
Power Plants
90-006078
90-006320
Turbines
90-001009

...CONTINUED...
Fish Passage
Turbines
90-002759
Weirs
90-006429
Fishing Gear
Acoustical Attractants
90-002755
Angling
90-004588
Baits/Baiting
90-001001
90-002735
90-002743
90-004526
90-006407
Behavior
90-002127
90-002756
90-002758
90-003785
90-004525
90-006404
90-006421
Catch Per Unit Effort
90-001740
90-002159
90-002748
90-002749
90-002750
90-002752
90-004053
90-004484
90-006773
Computer Applications
90-001011
90-002757
Economics
90-006424
Electrofishing
90-001263
90-001438
90-001444
90-001445
90-002723
90-004858
90-004860
90-006396
90-006417
Explosives
90-000981
Fish Aggregation Devices
90-000997
90-002755
90-002758
90-004538
90-004744
90-006405
90-006411
Fish Attractants
90-002743
90-006407
Fish Behavior
90-000500
90-000997
90-001001
90-001007
90-001364
90-002110
90-002748
90-002749

...CONTINUED...
Fishing Gear
Fish Behavior
90-006409
90-006411
Gear Efficiency
90-001354
90-002748
90-002751
90-002753
90-004519
90-004533
90-004538
90-004588
90-004860
90-006395
90-006396
90-006397
90-006402
90-006404
90-006408
90-006416
90-006418
90-006425
90-006437
Gear Selectivity
90-000998
90-001006
90-001354
90-001403
90-002732
90-002738
90-002741
90-002746
90-003680
90-004522
90-004526
90-004531
90-004535
90-004539
90-004564
90-006399
90-006403
90-006410
90-006413
90-006423
General
90-001003
90-002731
90-002753
90-002947
90-006400
90-006424
Hooking/Handling Mortality
90-004532
90-006422
Hooking/Handling Stress
90-004049
90-004532
Hooks
90-001001
90-002731
90-002741
90-004519
90-005872
90-006404
Larval Fish
90-001438
90-002748
90-006412
Lights
90-000500

...CONTINUED...
Fishing Gear
Lights
90-002749
90-002749
90-002758
90-006411
90-006421
Longlines
90-001365
90-001740
90-004484
90-004525
90-004526
90-004564
90-004720
90-006404
90-006423
Lunar Influences
90-002750
Misc. Gear
90-001354
90-002742
90-002747
90-006417
Modeling
90-002110
90-002738
90-002748
90-002790
90-004588
Monofilament
90-006398
Nets/Cast Nets
90-002746
Nets/Codends
90-004532
Nets/Dip Nets
90-002749
Nets/Drift Nets
90-004490
90-004523
Nets/Fyke Nets
90-004536
90-004858
90-006362
Nets/General
90-002731
Nets/Gill Nets
90-001006
90-002738
90-002741
90-002750
90-004490
90-004518
90-004522
90-004539
90-006396
90-006413
90-006423
90-006459
Nets/Hoop Nets
90-002735
Nets/Lights
90-002749
Nets/Misc.
90-001007
90-001351
90-002742
90-002747
Nets/Net Damage
90-001005

...CONTINUED...
Fishing Gear
Nets/Netting
90-000996
90-000999
90-001005
90-001006
90-002790
90-003680
90-004518
90-004522
90-004524
90-004531
90-006395
90-006401
90-006406
90-006413
90-006414
90-006420
90-006459
Nets/Pound Nets
90-002732
Nets/Purse Seines
90-001002
90-002744
90-002745
90-002751
90-004528
90-004529
90-004530
90-004531
90-004564
90-004755
90-006415
90-006773
Nets/Seines
90-002732
90-004535
90-004584
Nets/Separator Panels
90-000998
Nets/Set Nets
90-001005
90-002756
90-003852
90-006409
Nets/Trammel Nets
90-004527
Nets/Trap Nets
90-006396
90-006416
Nets/Trawls
90-000998
90-001448
90-002110
90-002733
90-002734
90-002752
90-002754
90-002949
90-004480
90-004532
90-004589
90-004750
90-004808
90-004865
90-006401
90-006402
90-006403
90-006406
90-006408
90-006412

...CONTINUED...
Fishing Gear
Nets/Trawls
90-006418
90-006419
90-006425
Photoperiodism
90-004053
Pole and Line
90-002741
Ropes
90-000997
Safety
90-002737
90-002744
Sampling
90-001351
90-001438
90-001448
90-002159
90-002949
90-004534
90-004536
90-004544
90-004584
90-004589
90-004750
90-004763
90-004858
90-004860
90-004865
90-006396
90-006413
90-006416
90-006420
90-006773
Shellfishing
90-002706
Sodium Cyanide
90-001540
Subsistence Fishing
90-000981
90-001367
90-002909
Traps/Baited
90-006397
90-006410
Traps/Benthic
90-004544
Traps/General
90-004534
90-004537
90-004763
90-006395
Traps/Minnow Traps
90-002159
Traps/Wire
90-004520
Vessel Design
90-001000
90-001004
90-002736
90-002739
90-002740
90-002745
90-004521
Yoyo Fishing
90-006422
Genetics
Age/Growth
90-000472
90-000476

...CONTINUED...
Genetics
Age/Growth
90-002061
90-002078
90-003018
90-003019
90-003032
90-003046
90-003048
90-003058
90-003072
90-003696
90-003704
90-003711
90-003717
90-003721
90-004906
Allozymes
90-000447
90-000481
90-002067
90-003626
90-003654
90-003665
90-003725
90-005443
90-005444
90-005446
90-005484
90-005485
90-005493
Androgen
90-002066
90-003715
Behavior
90-002045
90-002095
90-003072
90-003697
90-005435
90-005453
90-005495
90-005567
Biochemical Composition
90-000439
90-000443
90-000450
90-000451
90-000452
90-000453
90-000455
90-002069
90-003683
90-004069
90-005447
Brood Stock
90-003015
90-003018
90-003049
90-003648
90-003651
90-003700
90-005000
Carcass Traits
90-000452
90-000453
90-003020
90-003664
Chromosomes
90-000456
90-000459

...CONTINUED...
Genetics
Chromosomes
90-000471
90-000473
90-000478
90-000482
90-002034
90-002048
90-002055
90-002068
90-002082
90-003258
90-003614
90-003615
90-003622
90-003639
90-003647
90-005426
90-005451
90-005455
90-005456
90-005469
90-005480
90-005486
Cloning
90-003674
90-003726
90-005433
90-006118
Coloration
90-000472
90-000478
90-001487
90-001646
90-002077
90-002081
90-003020
90-003214
90-003645
90-003658
90-003696
90-003701
90-003719
Condition Factors
90-000441
90-003021
Cryopreservation
90-003640
Culture/Propagation
90-001504
Disease Susceptibility
90-002724
90-003021
90-003619
90-003632
90-003644
90-003702
90-003727
90-005441
DNA
90-000430
90-000431
90-000436
90-000438
90-000444
90-000447
90-000448
90-000451
90-000458
90-000462
90-000470

...CONTINUED...
Genetics
DNA
90-000474
90-000481
90-002038
90-002071
90-002075
90-002079
90-003624
90-003626
90-003629
90-003636
90-003643
90-003652
90-003656
90-003661
90-003665
90-003698
90-003718
90-003863
90-004364
90-005000
90-005432
90-005433
90-005448
90-005457
90-005485
90-005486
90-005487
90-005498
90-005502
90-006118
Dwarfism
90-005486
Early Development
90-000441
90-003079
90-003647
90-003668
90-003695
Egg Size
90-000441
Electrophoresis
90-000428
90-000433
90-000442
90-000443
90-000460
90-000461
90-000463
90-000464
90-000466
90-000467
90-000693
90-001456
90-002039
90-002054
90-002065
90-002069
90-003627
90-003646
90-003649
90-003652
90-003655
90-003659
90-003670
90-003677
90-003689
90-003695
90-003698
90-004501

...CONTINUED...
Genetics
Electrophoresis
90-004917
90-005425
90-005458
90-005484
90-005489
Embryology
90-003647
Enzymes
90-000433
90-000444
90-000467
90-002036
90-002037
90-002044
90-003334
90-003636
90-003642
90-003644
90-003649
90-003658
90-003682
90-003695
90-003718
90-003725
90-005445
90-005464
90-005473
90-005483
90-005491
Evolution
90-000432
90-000468
90-000474
90-000478
90-002041
90-002057
90-002071
90-002072
90-002074
90-002076
90-002080
90-002082
90-003626
90-003643
90-003646
90-003652
90-003654
90-003656
90-003666
90-003683
90-003685
90-003694
90-005379
90-005429
90-005437
90-005442
90-005482
90-005485
90-005550
Fecundity
90-002053
90-002058
90-002209
90-003019
90-004917
90-005467
90-005473
Food Conversion Efficiency
90-003504

...CONTINUED...
Genetics
Foods/Feeding
90-005766
Gene Polymorphism
90-000479
Gene Transfer
90-003633
90-003660
90-003693
90-003727
90-005465
90-005478
General
90-003651
90-003681
Genetic Diversity
90-000468
90-000484
90-003634
90-003658
90-003659
90-003669
90-003670
90-003676
90-003688
90-003689
90-003691
90-004448
90-005436
90-005444
90-005458
90-005461
90-005463
90-005470
90-005490
90-005491
Genetic Engineering
90-003534
90-003660
90-003681
90-003727
90-005213
90-005465
Genetic Fitness
90-000465
Genetic Markers
90-000446
90-000448
90-000471
90-000990
90-000991
90-002036
90-003005
90-003006
90-003642
90-003664
90-003710
90-003719
90-005476
90-005499
Genetic Strains
90-000441
90-000442
90-000463
90-002070
90-002724
90-003046
90-003660
90-003679
90-003692
90-003696

...CONTINUED...
Genetics
Genetic Strains
90-003697
90-004637
90-004986
90-005381
90-005429
90-005434
90-005451
90-005463
90-005477
90-005489
90-005766
90-006055
90-006147
Growth Hormone
90-002050
90-003534
Gynogenesis
90-002047
90-003066
90-003616
90-003633
90-003638
90-003653
90-003674
90-003706
90-003712
90-003726
90-005440
90-005479
Hatchery/Wild Populations
90-000438
90-000439
90-000459
90-000483
90-000991
90-001019
90-002033
90-002037
90-002080
90-003005
90-003006
90-003046
90-003613
90-003631
90-003657
90-003688
90-003722
90-004501
90-004917
90-005431
90-005463
90-005467
90-005471
90-005501
90-006758
Hematology
90-000428
90-000449
90-003655
Hermaphroditism
90-002082
Heterozygosity
90-002037
Hormones
90-002042
Hybrid Identification
90-000444
90-003637
90-003638

...CONTINUED...
Genetics
Hybrid Identification
90-005431
90-005460
90-005492
Hybridization
90-000429
90-000437
90-000444
90-001537
90-002031
90-002043
90-002044
90-002081
90-002095
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90-003048
90-003072
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90-003637
90-003638
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90-003677
90-003699
90-003717
90-003724
90-003725
90-004991
90-005429
90-005431
90-005454
90-005459
90-005460
90-005478
90-005492
Immune Response
90-003619
90-003632
90-003702
90-003705
90-005474
Inbreeding
90-001504
90-003049
90-003619
90-003648
90-003669
90-003674
90-003712
Isozymes
90-000463
90-000467
90-003333
90-003334
90-003621
90-003625
90-003679
90-003695
90-003707
90-005425
90-005447
90-005468
Karyotypes
90-000428
90-000429
90-000435
90-000459
90-000471
90-000480

...CONTINUED...
Genetics
Karyotypes
90-000482
90-002034
90-002048
90-002068
90-003065
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90-003615
90-003637
90-003639
90-003714
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90-005442
90-005451
90-005469
90-005475
Lactate Dehydrogenase
90-000446
90-002036
90-002041
90-005472
Laws/Law Enforcement
90-003660
Lipid Composition
90-000453
90-001528
90-005500
Masculinization
90-002066
Maturation
90-000476
90-000478
90-000485
90-002052
90-002186
90-002191
90-002209
90-003663
90-005464
Mitochondria
90-002057
90-003258
90-003624
90-003626
90-003629
90-003636
90-003656
90-003664
90-003665
90-003698
90-003718
90-005432
90-005448
90-005457
90-005485
90-005486
90-005487
90-005502
Modeling
90-001087
90-002190
90-002777
90-003675
90-003723
90-004579
Morphology
90-000476
90-002049
Mutagens
90-002648

...CONTINUED...
Genetics
Mutagens
90-004364
Natural Selection
90-000478
90-001403
90-003673
90-005503
Nucleus Transplantation
90-003630
90-003640
Osteology
90-003666
Parental Behavior
90-005494
Parr-Smolt Transformation
90-002052
90-003618
Ploidy Levels
90-003643
Pollution Tolerance
90-002595
90-006055
90-006147
Polymorphism
90-000433
90-000439
90-002055
90-003214
90-003685
Polyploidy
90-002063
90-003612
90-003633
90-003637
90-003687
90-003720
90-005442
90-005475
Population Genetics
90-000430
90-000431
90-000443
90-000446
90-000448
90-000449
90-000450
90-000458
90-000461
90-000469
90-000477
90-000481
90-002038
90-002040
90-002054
90-002065
90-002074
90-002190
90-002777
90-003613
90-003620
90-003625
90-003629
90-003642
90-003646
90-003650
90-003657
90-003662
90-003670
90-003675
90-003677

...CONTINUED...
Genetics
Population Genetics
90-003691
90-003698
90-003703
90-003718
90-003722
90-003723
90-004579
90-004742
90-005432
90-005445
90-005449
90-005466
90-005470
90-005487
90-005490
90-005491
90-005503
90-006615
Population Studies
90-000445
Proteins
90-000479
90-000483
90-003646
90-003695
90-003707
Reproduction
90-000485
90-002040
90-002053
90-002062
90-002777
90-003721
Reproductive Cycle
90-005490
RNA
90-000438
90-000451
90-005433
Scales
90-003617
Selective Breeding
90-003015
90-003018
90-003042
90-003046
90-003058
90-003066
90-003072
90-003648
90-003651
90-003674
90-003700
90-005434
Sex Determination
90-000444
90-000454
90-002042
90-003616
Sex Ratios
90-000454
90-002190
90-003616
Sex Reversal
90-002073
90-002082
90-003643
Sexual Dimorphism
90-000454

...CONTINUED...
Genetics
Sexual Dimorphism
90-002072
Spawning
90-002191
Speciation
90-002057
90-003690
90-003720
90-003868
90-005458
90-005550
Species Identification
90-003720
Sterilization
90-002073
Stock Identification
90-000431
90-000459
90-000460
90-000462
90-000466
90-000693
90-000991
90-001091
90-001456
90-003619
90-003624
90-003650
90-003686
90-003692
90-003705
90-003708
90-003716
90-003723
90-003863
90-004560
90-005432
90-005445
90-005481
90-005485
90-005493
90-005501
90-005503
Stocking/Introductions
90-000459
Supermales
90-001630
Survival
90-002078
90-003032
90-003079
90-003082
90-003668
90-003693
90-003703
90-003704
90-003715
90-004917
90-004920
90-005438
90-005729
Swimming Performance
90-005405
Techniques
90-002066
90-002974
Techniques/Chromosomes
90-000435
90-003635
90-005450

...CONTINUED...
Genetics
Techniques/Chromosomes
90-005455
90-005502
Techniques/Electrophoresis
90-002031
Techniques/Karyotypes
90-000435
90-003635
Techniques/Ploidy Levels
90-000440
90-000473
90-002031
90-002032
90-002051
90-002063
90-002079
90-003071
90-003667
90-003672
90-003709
90-005430
90-005440
90-005479
Techniques/Population Genetics
90-003642
Techniques/Species
Discrimination
90-003679
Techniques/Variation Studies
90-000470
Tetraploidy
90-003610
90-003667
90-003715
90-005438
Thermal Tolerance
90-003623
90-003713
90-004986
90-004991
90-005249
90-005381
90-005452
Transferrins
90-003627
Triploid Fish
90-000440
90-000452
90-000453
90-001487
90-001532
90-002032
90-002035
90-002052
90-002078
90-003007
90-003066
90-003079
90-003504
90-003610
90-003612
90-003672
90-003709
90-004885
90-005405
90-005430
90-005440
90-005479
Unisex Populations
90-002043

...CONTINUED...
Genetics
Unisex Populations
90-003637
90-003638
Variation Studies
90-000428
90-000433
90-000436
90-000438
90-000439
90-000441
90-000447
90-000449
90-000450
90-000451
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90-002070
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90-003621
90-003622
90-003624
90-003626
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90-003629
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90-003658
90-003661
90-003662
90-003663
90-003665
90-003668
90-003675
90-003677
90-003682
90-003684
90-003685
90-003705
90-003711
90-003712
90-003714
90-003716
90-003717
90-003718
90-003721
90-003725
90-003792
90-004637
90-004917
90-005435

...CONTINUED...
Genetics
Variation Studies
90-005436
90-005444
90-005447
90-005448
90-005456
90-005461
90-005464
90-005466
90-005471
90-005474
90-005477
90-005483
90-005484
90-005485
90-005487
90-005489
90-005491
90-005496
90-005503
90-005729
Vision
90-005439
Vitellogenin
90-005433
Zoogeography
90-005429
90-005457
90-005462
90-005482
90-005483
Habitat Alterations
Acidification
90-004244
Agricultural Drainage
90-001161
90-001217
90-001243
90-002700
Artificial Reefs
90-002484
90-002705
90-004609
Artificial Spawning Beds
90-001485
Bank Revetment
90-000984
90-002696
90-006308
90-006332
90-006335
90-006576
90-006689
Beaver Ponds
90-000977
Benthos
90-002706
Boat Turbidity
90-001142
90-002701
90-006329
Borrow Pits
90-004468
Buffer Strips
90-001243
Canals
90-002901
90-004424
90-005848
90-006322

...CONTINUED...
Habitat Alterations
Canals
90-006362
90-006555
Channelization
90-002901
90-004447
90-004459
90-004652
90-006308
90-006335
90-006576
90-006587
90-006623
Clearing and Snagging
90-002706
90-004459
90-006308
Climate
90-000973
90-002201
90-002532
90-002692
90-002709
90-002710
90-002838
90-005103
90-005106
90-005120
90-005862
90-005870
90-005871
90-006093
90-006314
90-006318
90-006319
90-006324
90-006330
90-006446
90-006457
90-006460
90-006471
90-006485
Coal Mining
90-001296
Coral Reefs
90-001380
90-002698
90-004444
90-006309
Dams
90-000974
90-001276
90-002701
90-002771
90-006564
Dewatering
90-001157
90-002517
90-002693
Dikes
90-002804
90-004450
90-004455
90-006430
90-006587
Drawdowns
90-002771
90-004456
90-004461
Dredging
90-002511

...CONTINUED...
Habitat Alterations
Dredging
90-004465
90-004632
90-004657
90-006309
90-006325
90-006500
Energy Development
90-002234
90-002692
90-002699
90-002917
Erosion
90-004451
90-004461
Erosion Control
90-004453
90-004455
90-004475
90-004878
90-006587
90-006594
90-006689
Explosives
90-000981
Fire
90-000978
90-004454
90-006307
Fishing Docks
90-006684
Flood Control
90-000982
90-006623
Floods
90-006592
Flotsam
90-002860
90-002919
Flow Regimes
90-000985
90-001216
90-001218
90-001226
90-001253
90-001267
90-001294
90-002701
90-002791
90-002861
90-002866
90-002870
90-002879
90-004459
90-004474
90-004542
90-005682
90-006267
90-006306
90-006328
90-006332
90-006439
90-006453
90-006482
90-006559
90-006567
90-006576
90-006578
90-006588
90-006606

...CONTINUED...
Habitat Alterations
Flow Regimes
90-006610
90-006621
90-006622
90-006626
90-006637
Forestry Practices
90-001241
90-001254
90-001309
90-002860
90-004269
90-004447
90-004457
90-004459
90-004472
90-004661
90-004666
90-006323
90-006338
90-006603
General
90-002694
90-004421
90-006313
90-006315
90-006316
90-006321
90-006326
90-006614
90-006636
Gravel Mines
90-002234
90-006261
90-006293
90-006521
Grazing
90-001072
90-001275
90-002707
90-002864
90-004445
90-004667
90-006327
90-006607
Habitat Improvement/General
90-001276
90-002703
90-006590
90-006604
Hydroelectric Developments
90-000982
90-001009
90-001135
90-002783
90-002866
90-004096
90-004467
90-006482
90-006559
Impoundment
90-000974
90-000980
90-000982
90-000985
90-001218
90-001226
90-001267
90-001278
90-001324

...CONTINUED...
Habitat Alterations
Impoundment
90-001465
90-002879
90-004458
90-004459
90-004462
90-004463
90-004474
90-004542
90-004632
90-004641
90-004645
90-004652
90-004655
90-004672
90-004678
90-004681
90-005661
90-006306
90-006332
90-006335
90-006439
90-006564
90-006567
90-006576
90-006577
90-006588
90-006606
90-006611
Irrigation Projects
90-001216
90-001341
90-002517
90-002861
90-004424
90-004458
90-006332
90-006362
Land Use
90-000975
90-001299
90-001306
90-002702
90-002708
90-002836
90-002903
90-004448
90-004450
90-006340
90-006521
Landfills
90-002487
Logging Residue
90-001177
90-001254
90-002860
90-004271
90-004447
90-004457
90-004471
90-004472
90-004657
90-004661
90-006333
Marinas
90-006086
Mining
90-000806
90-000809
90-001296

...CONTINUED...
Habitat Alterations
Mining
90-002511
90-004263
90-004468
90-006336
Mitigation
90-001215
90-002234
90-004244
90-004446
90-004464
90-004467
90-004469
90-004641
90-004695
90-006313
90-006323
90-006325
90-006332
90-006590
90-006604
90-006626
Navigation Projects
90-000982
90-002701
90-002704
90-002791
90-003496
90-006325
Off-road Vehicles
90-006340
Offshore Drilling
90-002917
90-006351
Pipelines
90-006334
90-006337
Power Lines
90-006317
Power Plants
90-002109
90-002262
90-002697
90-006320
Recreational Activities
90-000819
90-000944
90-000948
90-001135
90-001142
90-001202
90-004454
90-006256
90-006340
Reservoir Release Effects
90-006564
90-006775
Riparian Habitat
90-001072
90-001215
90-001241
90-002861
90-002864
90-004447
90-004452
90-004667
90-006327
90-006332
90-006607
90-006610

...CONTINUED...
Habitat Alterations
Road Construction
90-000975
90-004249
90-004299
90-004446
90-004464
90-004540
90-004541
Salinization
90-004449
90-004456
90-004463
90-004466
Salt Mining
90-003100
Sand Mining
90-001380
Sediment Control
90-001292
90-002884
90-002901
90-004585
90-006611
Sedimentation
90-002332
90-002698
90-004444
90-004585
90-006334
Shellfishing
90-002706
Ship Canals
90-006329
Shoreline Development
90-002699
90-002708
Spawning Channels
90-002704
Spawning Habitat Restoration
90-002871
Spawning Substrates
90-000985
90-002332
90-002693
90-002704
90-004471
Stream Relocation
90-001292
90-006308
90-006311
90-006576
90-006587
90-006623
Temperature
90-000980
90-001218
90-002262
90-002532
90-002697
90-004096
90-006338
90-006339
90-006564
Tidal Power Development
90-000976
Trophic Relationships
90-001267
Urban Development
90-000813
90-002703

...CONTINUED...
Habitat Alterations
Urban Development
90-002871
90-004631
90-005664
90-006521
Volcanoes
90-003177
90-005593
Water Level Fluctuations
90-001157
90-004628
90-004637
Watershed Management
90-004461
90-004473
90-004474
90-004678
Weirs
90-000972
90-004414
90-004449
90-004450
90-004453
90-004456
90-004460
90-004469
90-004473
90-004478
Wetland Draining
90-000982
90-000983
90-001018
90-002487
90-002668
90-002700
90-002708
90-002804
90-004414
90-004451
90-004461
90-004701
Wetland Restoration
90-000934
90-000983
90-002487
90-002695
90-004414
90-004449
90-004453
90-004464
90-004468
90-004470
90-004473
90-004695
90-006312
90-006322
90-006331
90-006669
90-006676
Wetlands
90-006310
90-006311
Invertebrates
Acidification
90-000825
90-006065
90-006084
Amphipods
90-002261
90-005758

...CONTINUED...
Invertebrates
Amphipods
90-006632
Artemia
90-002236
90-002238
Benthos
90-002281
90-006639
Benthos/Drift
90-001249
Brachionus
90-000946
Brachionus plicatilis
90-000112
Callinectes sapidus
90-002334
Chaoborus
90-000927
Chironomidae
90-000633
90-000862
90-001223
90-005111
90-005119
Choaborus
90-003192
Cladocerans
90-001352
90-002274
90-004610
90-004621
90-005763
90-006517
Competition
90-002334
90-003783
Copepoda
90-000156
90-000628
90-001352
90-001923
90-002496
90-005788
Corals
90-002272
90-004444
Crayfish
90-000146
Daphnia
90-000083
90-000624
90-000625
90-001154
90-002837
90-003930
90-004623
Euphausia superba
90-002816
Evolution
90-002281
Flow Regimes
90-006306
90-006328
90-006577
90-006632
Foods/Feeding
90-000624
Gammarus
90-000124
General
90-001249

...CONTINUED...
Invertebrates
Heavy Metals
90-000862
90-006070
Hydromedusae
90-003783
Impoundment
90-006577
Insects
90-000490
90-001229
90-001466
90-002256
90-002283
90-006065
90-006538
90-006591
90-006632
Invertebrate Collection
90-001352
Isopods
90-002995
Molluscs
90-000645
90-000646
90-005759
90-006787
Mysids
90-000158
Mysis relicta
90-001156
90-002840
90-004623
Neomysis intermedia
90-000158
Odonata
90-006642
Oil Pollution
90-000860
Oligochaetes
90-000638
Ostracods
90-006631
Periphyton
90-001211
pH
90-000862
Pollution
90-002496
90-002516
Polychaetes
90-003962
Pontoporeia hoya
90-002840
Pontoporeia hoyi
90-004623
Population Studies
90-001312
Predator/Prey Relationships
90-000146
90-000158
90-000159
90-000490
90-000624
90-000625
90-000628
90-000630
90-000633
90-000645
90-000646
90-001133

...CONTINUED...
Invertebrates
Predator/Prey Relationships
90-001208
90-002251
90-002256
90-002261
90-002272
90-002281
90-002283
90-002334
90-002837
90-003192
90-003930
90-003949
90-005758
90-005763
90-006296
90-006517
90-006631
90-006642
Rotifers
90-001571
90-003124
Sea Urchins
90-003949
Shrimp
90-003178
90-003943
Trophic Relationships
90-000158
90-000638
90-001499
90-001564
90-002281
90-002837
90-002840
90-002995
90-003124
90-004621
90-004623
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90-005755
90-005758
90-006538
90-006591
Zooplankton
90-000035
90-000624
90-000630
90-000635
90-000825
90-001133
90-001177
90-001208
90-001350
90-001499
90-002251
90-002516
90-002837
90-002877
90-004693
90-005755
Limnology
Acidification
90-001126
90-001143
90-001637
90-001638
90-002518
90-003181

...CONTINUED...
Limnology
Acidification
90-003182
90-003186
90-003187
90-003190
90-003197
90-004278
90-004290
90-004602
90-005110
90-006062
Acoustical Methods
90-004650
Algae
90-000041
90-000157
90-001195
90-001222
90-001229
90-001313
90-003195
90-005110
90-006186
Alkalinity
90-000151
90-003185
Aquatic Plants
90-001122
90-004877
90-004883
90-004884
90-006514
90-006523
90-006524
90-006533
90-006546
Bacteria
90-001122
90-001146
90-001229
90-001259
90-001641
90-006541
90-006544
Benthos
90-001097
90-001225
90-001268
90-001279
90-001313
90-002147
90-002682
90-004617
Biomass
90-004633
Calcium
90-000151
90-001337
Carbon
90-001210
Chlorophyll
90-001179
90-001207
90-001268
Conductivity
90-000151
Cooling Reservoirs
90-001095
Currents
90-000616

...CONTINUED...
Limnology
Decomposition
90-002518
Diatoms
90-001126
90-003197
Eutrophication
90-001103
90-001111
90-001131
90-001134
90-001139
90-001145
90-001153
90-001154
90-001161
90-001206
90-001207
90-001342
90-002846
90-003189
90-004877
90-005113
90-005114
90-006526
90-006527
90-006533
90-006537
90-006656
Foods/Feeding
90-006526
General
90-001638
90-002886
90-006522
General/Great Lakes
90-001169
General/Lake Superior
90-001169
Hydrology
90-001098
Invertebrate Drift
90-001279
90-001305
Liming
90-004278
90-004617
90-004626
Magnesium
90-001337
Marshes, Salt
90-002703
90-003179
Mercury
90-002518
90-004326
90-004339
Modeling
90-001132
90-001153
90-001209
90-002784
90-002805
90-005106
90-006434
90-006489
Nitrogen
90-000150
90-001096
90-001127
90-001168

...CONTINUED...
Limnology
Nitrogen
90-001176
90-001187
90-001210
90-001323
90-002850
90-003189
90-005114
Nutrient Control
90-001332
90-004877
90-004883
90-005110
90-005115
90-006067
90-006068
90-006384
90-006503
90-006508
90-006514
90-006515
90-006518
90-006524
90-006533
Nutrient Cycling
90-001127
90-001161
90-001179
90-001187
90-001246
90-001323
90-001337
90-004884
90-006641
Nutrients
90-000150
90-001121
90-002850
90-006489
90-006526
90-006650
Oxygen
90-001633
90-004310
90-005103
90-005107
Paleolimnology
90-001143
90-001637
90-003181
90-003182
90-003185
90-003186
90-003187
90-003197
90-004290
Periphyton
90-000147
90-001126
90-001183
pH
90-000151
90-003185
Phosphorus
90-000152
90-001116
90-001121
90-001127
90-001139
90-001167

...CONTINUED...
Limnology
Phosphorus
90-001168
90-001176
90-001187
90-001204
90-001206
90-001246
90-001323
90-001337
90-001639
90-002834
90-002846
90-002850
90-003184
90-003188
90-003189
90-003194
90-003199
90-004253
90-004884
90-005112
90-005114
90-005116
90-006068
90-006095
90-006514
90-006518
90-006529
90-006536
Photoperiodism
90-003811
Phytoplankton
90-001109
90-001111
90-001121
90-001132
90-001143
90-001146
90-001150
90-001161
90-001169
90-001178
90-001184
90-001185
90-001195
90-001209
90-001329
90-002834
90-003199
90-003811
90-004626
90-005114
90-006062
90-006095
Plankton
90-000041
90-000159
90-000547
90-000927
90-001103
90-001120
90-001127
90-001132
90-001146
90-001152
90-001188
90-002849
90-003194
90-003195
90-004650

...CONTINUED...
Limnology
Plankton
90-005113
90-005116
90-005117
90-005790
90-006384
90-006512
90-006515
90-006516
90-006524
90-006525
90-006527
90-006528
90-006533
90-006535
90-006539
90-006541
90-006545
90-006650
90-006655
90-006656
Predator/Prey Relationships
90-001156
Primary Production
90-000156
90-000157
90-000159
90-001105
90-001145
90-001169
90-001217
90-001237
90-001268
90-001329
90-001641
90-002853
90-002854
90-003189
90-003199
90-006529
90-006536
Red Tides
90-003196
Salinity
90-000946
90-001159
90-002818
Sediment
90-000152
90-001144
90-001167
90-001639
Sedimentation
90-000147
90-001101
Silica
90-001189
Stratification
90-002830
Summerkill
90-004310
Techniques/Water Quality
90-003190
Temperature
90-001633
90-004310
90-005103
90-005105
90-005106
90-005107

...CONTINUED...
Limnology
Trophic Relationships
90-001107
90-001128
90-001169
90-001210
90-002682
90-002830
90-002834
90-002850
90-003195
90-004602
90-004884
90-005111
90-005112
90-005113
90-005115
90-005116
90-005117
90-005790
90-006067
90-006095
90-006384
90-006434
90-006489
90-006503
90-006508
90-006512
90-006514
90-006515
90-006516
90-006518
90-006523
90-006524
90-006525
90-006526
90-006527
90-006528
90-006529
90-006530
90-006533
90-006535
90-006536
90-006537
90-006539
90-006541
90-006544
90-006545
90-006649
90-006655
90-006656
Trophic Status
90-001120
90-001134
90-001329
Turbidity
90-001117
90-001148
90-001358
90-002882
90-005112
90-006512
90-006516
90-006529
90-006530
90-006546
Upwelling
90-004866
90-006641
Volcanoes
90-003177

...CONTINUED...
Limnology
Water Circulation
90-002805
90-004631
Water Quality
90-001277
90-002784
90-002805
90-003186
90-004278
90-004883
90-005115
90-005117
90-006515
90-006524
90-006525
90-006530
90-006536
Zooplankton
90-000041
90-000159
90-001099
90-001107
90-001110
90-001123
90-001128
90-001132
90-001146
90-001154
90-001156
90-001178
90-001224
90-001313
90-001316
90-003811
90-004602
90-004610
90-004621
90-005112
90-006537
90-006645
90-006649
Management/Research--Estuaries
Abundance/Factors of
90-001359
90-002904
90-004702
90-004707
90-004708
90-004710
90-004731
90-005672
90-006673
Acidification
90-004712
Artificial Reefs
90-002705
Bays
90-002918
90-006671
Benthos
90-000059
90-002902
Channelization
90-002901
Coastal Habitat
90-001411
Discarded Bycatch
90-006672
Ecological Analysis
90-002894

...CONTINUED...
Management/Research--Estuaries
Ecological Analysis
90-006671
Economics
90-006676
Exploitation Rates
90-004479
Freshwater Inflow
90-001272
90-002895
90-002900
90-002903
90-002905
90-005701
90-006267
90-006311
90-006567
90-006666
90-006673
Freshwater Outflow
90-004704
General
90-002155
90-002317
90-002676
90-002894
90-004706
90-004709
90-006664
90-006665
General/California
90-001256
General/Indonesia
90-001411
General/Lake Michigan
90-002902
Habitat Alterations
90-000976
90-002695
90-002901
90-004701
90-006669
Habitat Evaluation
90-002894
90-002897
90-006668
Habitat Improvement/General
90-004695
90-006676
Habitat Protection
90-004696
90-004711
90-006267
Islands
90-003861
Lagoons
90-002897
90-004479
90-006666
Land Use
90-001411
Mangroves
90-001411
90-006666
90-006674
Marshes, Salt
90-002695
90-002896
90-005578
90-005774
Microhabitat
90-005578

...CONTINUED...
Management/Research--Estuaries
Microhabitat
90-006674
Modeling
90-002892
Nursery Areas
90-000616
90-001361
90-002143
90-002155
90-002176
90-002218
90-002231
90-002782
90-002893
90-002904
90-003738
90-003798
90-003858
90-003906
90-003918
90-003931
90-003933
90-004697
90-004698
90-004699
90-004700
90-004702
90-004703
90-004710
90-004712
90-005607
90-005672
90-005701
90-006661
90-006667
90-006670
90-006675
90-006677
Nutrients
90-001357
90-002896
90-002900
90-006663
Oxygenation
90-004705
Planning
90-002892
Pollution
90-000059
90-000816
90-000846
90-000853
90-002464
90-002490
90-002505
90-002513
90-002515
90-002578
90-002705
90-004248
90-004251
90-004272
90-004356
90-004704
90-004705
90-006076
90-006086
90-006192
90-006669
Population Studies
90-001361

...CONTINUED...
Management/Research--Estuaries
Population Studies
90-001362
90-002176
90-002904
90-003861
90-003866
90-004037
90-004038
90-004694
90-004707
90-004708
90-004731
90-005660
90-006666
90-006668
Primary Production
90-002898
90-002899
90-006666
Recruitment
90-002782
90-002904
90-004702
90-004712
90-004730
90-005607
90-006661
90-006670
90-006673
Salinity
90-002676
Sampling
90-004497
Seagrass Beds
90-002897
90-003962
90-004879
90-006668
90-006672
Sedimentation
90-002918
Stock Assessment
90-003866
90-004694
Trophic Relationships
90-001357
90-001360
90-002505
90-002898
90-003932
90-003933
90-004093
90-005761
90-006674
Tropics
90-006192
Water Quality
90-001117
90-001358
90-001362
90-002903
90-002905
90-004705
90-006676
Watershed Management
90-002892
90-002903
Wetlands
90-002896
90-004695

...CONTINUED...
Management/Research--Estuaries
Wetlands
90-004701
Management/Research--General
Abundance/Factors of
90-005871
90-006254
Access
90-002681
Acidification
90-000856
90-002559
90-004244
Administration
90-002683
90-002686
Angling
90-000819
90-000944
90-000948
90-000955
Arctic Habitat
90-000822
90-000860
90-000933
90-000952
90-002230
90-002692
Artificial Reefs
90-000964
90-000965
90-002484
Baitfish
90-006378
Biomass
90-006298
Canals
90-004424
Channelization
90-004456
Climate
90-006253
Coastal Habitat
90-002663
90-002703
Commercial Fishing
90-002720
90-002737
90-004426
90-004431
90-004562
Computer Applications
90-006258
90-006269
90-006291
Data Bases
90-002679
90-004420
90-006260
Dredging
90-006325
Economic Value
90-000933
90-000940
90-000953
90-000958
90-004416
90-004425
90-004426
90-004432
90-004438

...CONTINUED...
Management/Research--General
Economic Value
90-006262
90-006264
90-006285
90-006348
Economics
90-000942
90-000950
90-006274
90-006285
90-006298
90-006382
Education
90-000133
90-000968
90-002687
90-002691
90-004408
90-004422
90-004436
90-006246
90-006291
Environmental Impact Assessments
90-002510
90-002531
90-002702
90-002986
90-004299
90-004418
90-004419
90-004446
90-006265
90-006323
Eutrophication
90-002804
Exotic Species
90-000943
Exploitation Rates
90-001477
90-002681
90-002711
90-004432
90-004579
90-006292
90-006298
90-006349
90-006455
Fish Control/Removal
90-006286
Fisheries
90-001052
90-001083
Fisherman/Angler Surveys
90-004568
90-006274
90-006277
90-006284
90-006352
Fishery Associations
90-000939
90-000945
90-000959
Fishery Cooperatives
90-004426
90-004429
Fishery Textbooks
90-000968
Forecasting
90-004416
90-006457

...CONTINUED...
Management/Research--General
Forestry Practices
90-002673
Freshwater Inflow
90-006322
Funding
90-000942
90-000967
90-002684
90-006263
90-006266
90-006275
90-006297
90-006304
General
90-000940
90-000966
90-000969
90-004425
90-006255
90-006259
General/Africa, Southern
90-004409
General/Alaska
90-000952
General/Arctic Ocean
90-000952
General/Arkansas
90-000958
90-000967
General/Canada: Nova Scotia
90-004435
General/Canada: Quebec
90-002681
General/Colorado
90-000940
General/Florida
90-002665
General/Montana
90-000953
General/Netherlands
90-000954
90-001461
General/New Zealand
90-004427
General/North America
90-000961
General/Sweden
90-001464
General/Thailand
90-001061
General/United States
90-000950
90-001462
General/USSR
90-000957
90-000963
General/West Germany
90-000937
Habitat Alterations
90-000933
90-000948
90-000975
90-000981
90-002692
90-002700
90-002702
90-004414
90-004421
90-004427
90-004448

...CONTINUED...
Management/Research--General
Habitat Alterations
90-004450
90-004459
90-004461
90-004463
90-004464
90-004469
90-004585
90-006261
90-006293
90-006310
90-006321
90-006322
90-006326
Habitat Evaluation
90-002664
90-002673
90-006250
Habitat Improvement/General
90-000929
90-002703
90-002871
90-004453
90-004456
90-004464
90-004470
90-004473
90-004475
90-006321
90-006326
90-006331
90-006430
90-006662
Habitat Protection
90-000941
90-000950
90-002487
90-002549
90-002668
90-004413
90-004416
90-004437
90-004448
90-006247
90-006248
90-006256
90-006270
90-006272
90-006279
90-006280
90-006331
Habitat Rating Systems
90-002664
90-006764
Harvest
90-002711
90-004410
90-004411
90-004430
90-004478
90-004562
90-006345
90-006349
Hooking/Handling Mortality
90-001041
90-002719
Hooking/Handling Stress
90-002719
90-005384
Illegal Harvest
90-006455

...CONTINUED...
Management/Research--General
Indian Lands Management
90-002666
90-006288
Indian Treaty Rights
90-002690
90-004425
90-004428
90-004431
Interagency Cooperation
90-002684
90-002686
90-002689
International Fisheries
90-002690
Islands
90-003646
90-005849
Jurisdiction
90-004410
90-004426
90-006288
Lagoons
90-000946
90-003179
Land Use
90-004415
Laws/Law Enforcement
90-000950
90-002487
90-002531
90-002670
90-002673
90-002674
90-002690
90-004415
90-004475
90-006258
90-006269
90-006270
90-006279
90-006417
License Sales
90-006263
90-006297
Liming
90-004244
Litter
90-000819
Mangroves
90-000914
90-000960
90-002168
90-003051
90-003796
Marketing
90-000961
90-006274
Marshes
90-000512
90-000804
90-000941
90-000949
90-001220
90-002676
90-004453
90-004456
90-004461
90-004466
90-004473
90-004551

...CONTINUED...
Management/Research--General
Marshes
90-006292
90-006294
90-006322
Marshes, Salt
90-000934
90-002703
90-002708
90-004044
90-004455
90-004460
90-004463
90-004466
90-004469
90-004470
90-004478
90-004585
90-005810
90-006325
90-006331
90-006430
90-006662
Microhabitat
90-002989
90-003796
Mitigation
90-004244
90-004469
90-006271
90-006282
90-006323
90-006325
Modeling
90-000968
90-001029
90-001036
90-001047
90-001052
90-001064
90-001083
90-001090
90-001461
90-004551
90-004556
90-006252
90-006283
90-006304
90-006486
Mosquito Control
90-002521
90-003954
90-006251
90-006299
90-006300
Multiple Use
90-000955
Multispecies Management
90-001029
90-001036
90-001043
90-001047
90-001064
90-001090
90-002673
90-006278
Nursery Areas
90-002168
90-004455
90-004460
Nutrient Control
90-002667

...CONTINUED...
Management/Research--General
Nutrient Control
90-004866
Nutrients
90-000949
Optimum Sustainable Yield
90-001036
90-001043
Personnel
90-000969
90-002685
90-002687
90-002691
90-003003
90-004422
90-004426
90-004429
90-004431
90-004438
90-006257
90-006275
Planning
90-000939
90-000945
90-000961
90-000966
90-000968
90-000969
90-001036
90-001043
90-002559
90-002802
90-004418
90-004433
90-004434
90-006295
90-006302
90-006304
90-006764
Pollution
90-000804
90-000822
90-000829
90-000914
90-000931
90-002510
90-002531
90-002549
90-002572
90-002692
90-006270
90-006288
Population Studies
90-000935
90-000951
90-001041
90-001520
90-001812
90-002572
90-002773
90-004024
90-004416
90-004424
90-004448
90-004579
90-006786
Predator/Prey Relationships
90-005567
90-006296
Production
90-000930

...CONTINUED...
Management/Research--General
Public Relations
90-000950
90-000961
90-000967
90-000975
90-002670
90-002674
90-002678
90-002683
90-002685
90-006263
90-006295
90-006302
90-006303
90-006304
90-006354
Recreational Benefits
90-000940
90-000955
90-000958
90-004416
90-004478
90-004568
90-006256
90-006289
90-006455
Recruitment
90-002168
90-004417
90-004430
90-006461
Regulations/Catch and Release
90-006289
90-006295
90-006355
90-006455
Regulations/Fishing Gear
90-006417
Regulations/General
90-000966
90-004411
90-004430
90-006354
90-006357
90-006359
90-006461
Regulations/Limited Entry
90-002681
90-004488
Regulations/Size Limits
90-006455
Rice Paddies
90-001520
90-003954
90-006251
90-006299
90-006300
Sanctuaries
90-002665
Seagrass Beds
90-002672
Sedimentation
90-000956
90-004585
Social Values
90-000933
90-002666
90-004426
90-004431
90-004432

...CONTINUED...
Management/Research--General
Social Values
90-006262
90-006284
90-006285
Species Diversity
90-002677
90-002694
90-006270
90-006287
90-006290
90-006321
90-006786
Sportfishing
90-000958
90-002230
90-002674
90-002720
90-006256
90-006281
90-006284
90-006289
90-006292
90-006354
90-006357
90-006359
90-006378
Stock Assessment
90-002671
90-002711
90-005871
90-006278
Stocking/Introductions
90-002667
90-002720
90-006286
90-006382
Stress
90-001812
Subsistence Fishing
90-000933
90-002666
90-006294
Supplemental Stocking
90-004410
90-004411
90-005501
Technology
90-004434
Trophic Relationships
90-002667
90-002680
90-002682
90-002793
90-005567
90-006286
90-006296
90-006322
Tropics
90-000826
90-000837
90-000856
90-000981
90-001477
90-001520
90-002134
90-004420
90-006287
U.S. Forest Service
90-000950
90-002685

...CONTINUED...
Management/Research--General
U.S. Forest Service
90-002687
90-004416
90-004422
Urban Fishing
90-002678
90-006284
Volunteer Programs
90-002685
90-002871
Water Quality
90-000931
90-000954
90-000962
90-001461
90-001464
90-002487
90-002510
90-002871
90-003179
90-006288
Watershed Management
90-000952
90-004473
Wetlands
90-000932
90-000933
90-000934
90-000938
90-000946
90-000949
90-000951
90-000956
90-000962
90-000983
90-002230
90-002487
90-002663
90-002668
90-002669
90-002676
90-002700
90-002708
90-002804
90-004413
90-004414
90-004415
90-004419
90-004437
90-004450
90-004453
90-004461
90-004464
90-004469
90-004475
90-004585
90-006249
90-006261
90-006268
90-006280
90-006293
90-006310
Wild Trout Management
90-005463
Management/Research--Lakes
Abundance/Factors of
90-002162
90-002772
90-002823
90-002824

...CONTINUED...
Management/Research--Lakes
Abundance/Factors of
90-002856
90-003857
90-004268
90-004611
90-004628
90-004634
90-004635
90-006504
90-006531
90-006532
Acidification
90-000004
90-001106
90-001126
90-001155
90-001172
90-001638
90-002467
90-002518
90-002519
90-002535
90-002550
90-002554
90-002556
90-002585
90-002776
90-002788
90-002825
90-002826
90-002832
90-003182
90-003887
90-004237
90-004241
90-004252
90-004267
90-004268
90-004269
90-004275
90-004282
90-004292
90-004577
90-004602
90-004613
90-004617
90-004625
90-004626
90-004635
90-005110
90-006062
90-006094
90-006106
90-006218
Aeration
90-001100
Alpine Lakes
90-001125
90-001214
90-002467
90-002585
90-002726
90-002776
90-002830
90-002852
Aquatic Plant Control
90-001112
90-001113
Aquatic Plants
90-001122

...CONTINUED...
Management/Research--Lakes
Aquatic Plants
90-001176
90-001190
90-001200
90-004884
90-004887
90-006523
90-006533
90-006546
Arctic Habitat
90-001164
Artificial Reefs
90-004609
Artificial Spawning Beds
90-001932
Biomass
90-002849
90-002902
90-004633
90-004650
Bog Lakes
90-002159
90-004551
Catch Per Unit Effort
90-001182
90-002712
90-004633
90-006522
Charter Boats
90-004608
Coastal Habitat
90-004638
Commercial Fishing
90-001165
90-001205
90-002247
90-002712
90-002714
90-002833
90-002842
90-004616
90-004618
90-004619
90-006531
Dredging
90-001252
Economic Value
90-001094
90-004268
90-004504
90-004612
Environmental Factors
90-002838
Eutrophication
90-001103
90-001129
90-001131
90-001139
90-001145
90-001146
90-001158
90-001163
90-001168
90-001186
90-001206
90-002463
90-002836
90-003997
90-004611
90-005764

...CONTINUED...
Management/Research--Lakes
Eutrophication
90-005805
90-006068
90-006381
90-006508
90-006511
90-006514
90-006519
90-006526
90-006527
90-006533
Exotic Species
90-002829
Exploitation Rates
90-001164
90-001165
90-002712
90-002847
90-004616
90-004628
90-006520
90-006531
Fertilization/Soil and Water
90-001162
90-001163
90-001178
90-002819
90-003189
Fish Control/Removal
90-005116
90-006503
90-006512
90-006515
90-006523
90-006524
90-006525
90-006528
90-006530
90-006539
90-006541
90-006544
90-006545
90-006549
Fisherman/Angler Surveys
90-001094
90-002714
90-004607
Fishing Tournaments
90-002843
90-003908
Forage Introductions
90-002841
Forecasting
90-001182
90-004633
Funding
90-002675
General
90-002825
90-002851
90-006543
General/Africa: Lake Tanganyika
90-001115
General/Africa: Lake Victoria
90-001102
90-004605
90-004636
General/Alaska
90-001096
General/Argentina
90-001179

...CONTINUED...
Management/Research--Lakes
General/Australia: New South Wales
90-001142
General/Austria
90-001193
90-001203
General/Belgium
90-001198
General/Brazil
90-001160
General/California
90-001109
90-001183
General/Canada: Alberta
90-001178
General/Canada: British Columbia
90-001100
90-001196
General/Canada: Newfoundland
90-001107
90-001152
General/Canada: Ontario
90-000635
90-001097
90-001121
90-001191
General/Canada: Quebec
90-001122
90-001174
General/Canada: Saskatchewan
90-001137
General/China: Yunnan Province
90-001110
General/Colorado
90-001201
General/Denmark
90-001145
90-001146
General/East Germany
90-001149
General/England
90-001114
90-001168
General/Finland
90-001126
90-001140
90-001143
General/France
90-001103
General/Great Lakes
90-001169
90-001180
90-001205
90-002828
90-002829
General/Hungary
90-001139
General/Iceland
90-001147
General/India
90-001105
General/Iran
90-001093
General/Israel
90-001133
General/Italy
90-001099
90-001106
90-001120
90-001131

...CONTINUED...
Management/Research--Lakes
General/Japan
90-001098
90-001130
90-001144
90-001210
General/Lake Erie
90-001138
General/Lake Michigan
90-001141
90-001188
90-002822
90-002831
90-002849
90-002902
General/Lake Ontario
90-000823
General/Lake Superior
90-001169
90-001189
90-002827
90-004614
General/Michigan
90-001167
General/Minnesota
90-001129
General/Missouri
90-001148
General/Montana
90-001125
General/Nepal
90-001159
General/Netherlands
90-001186
General/New Hampshire
90-001108
90-001167
General/New Zealand
90-001112
90-001113
90-001119
90-001161
90-001176
90-001187
90-001197
90-001202
90-001206
90-001207
General/Nigeria
90-001094
90-001118
90-001173
General/Norway
90-001156
90-001192
90-001199
General/Scotland
90-001135
General/South America: Lake Titicaca
90-001185
General/South Carolina
90-001095
General/Sri Lanka
90-000653
General/Sweden
90-000831
90-000839
90-001104
90-001209
General/Switzerland
90-001103

...CONTINUED...
Management/Research--Lakes
General/Switzerland
90-001132
General/United States, Eastern
90-001155
General/United States, Western
90-001124
90-001201
General/USSR: Lake Baikal
90-002821
90-002822
General/Washington
90-001123
90-001204
General/West Germany
90-001111
90-001136
90-001154
90-001190
90-001195
General/Wisconsin
90-001101
Gravel Pits
90-001114
90-002175
90-006549
Habitat Alterations
90-000039
90-001135
90-001142
90-001157
90-002697
90-002836
90-002856
90-003177
90-004269
90-004271
90-004603
90-004632
90-004635
90-006320
90-006460
90-006521
Habitat Evaluation
90-001138
90-005105
90-006502
90-006505
90-006506
90-006542
90-006548
Habitat Improvement/General
90-006517
90-006542
90-006546
90-006779
Habitat Protection
90-004607
Harvest
90-002842
90-004612
90-006522
90-006534
Hydrology
90-001118
Hypsographs
90-001095
Interagency Cooperation
90-002848
Jurisdiction
90-006510

...CONTINUED...
Management/Research--Lakes
Lake Classification
90-001138
Lake Renovation
90-001118
90-001129
90-001168
90-004253
90-004884
90-004887
90-006068
90-006514
90-006518
90-006519
90-006523
90-006533
90-006544
90-006545
90-006546
Laws/Law Enforcement
90-002833
Liming
90-001172
90-002535
90-002826
90-002832
90-004252
90-004267
90-004278
90-004613
90-004617
90-004626
Limnology
90-001097
90-001099
90-001101
90-001103
90-001107
90-001110
90-001116
90-001121
90-001123
90-001128
90-001129
90-001131
90-001135
90-001139
90-001142
90-001144
90-001145
90-001146
90-001152
90-001156
90-001159
90-001167
90-001168
90-001178
90-001188
90-001204
90-001206
90-001207
90-001210
90-002846
90-003177
Marshes
90-002824
90-004638
Maximum Sustainable Yield
90-004682
Mitigation
90-002535

...CONTINUED...
Management/Research--Lakes
Modeling
90-001104
90-001130
90-001136
90-001153
90-001192
90-001199
90-006463
90-006466
Morphoedaphic Index
90-002835
Nursery Areas
90-002824
90-004638
90-006504
Nutrient Control
90-001096
90-001101
90-001108
90-001125
90-001163
90-001167
90-001168
90-001178
90-001191
Nutrients
90-001162
90-002834
90-002850
90-002855
Oxbow Lakes
90-000066
90-001292
90-005810
Oxygen
90-000862
90-001200
pH
90-000862
Plankton
90-006511
Planning
90-004612
90-006466
Playas
90-001178
90-004618
Pollution
90-000823
90-000824
90-000831
90-000839
90-000842
90-000845
90-000847
90-000849
90-000862
90-001106
90-001177
90-001189
90-002463
90-002471
90-002485
90-002504
90-002506
90-002517
90-002519
90-002523
90-002533
90-002554

...CONTINUED...
Management/Research--Lakes
Pollution
90-002556
90-002569
90-002585
90-002654
90-002768
90-002825
90-002847
90-004250
90-004253
90-004257
90-004292
90-004302
90-004326
90-004622
90-004631
90-004635
90-006058
90-006080
90-006085
90-006339
90-006547
Population Studies
90-001164
90-001214
90-001252
90-002117
90-002159
90-002164
90-002167
90-002169
90-002174
90-002175
90-002212
90-002463
90-002772
90-002822
90-002827
90-002831
90-002844
90-002856
90-002857
90-004268
90-004507
90-004512
90-004570
90-004601
90-004614
90-004619
90-004640
90-005560
90-005654
90-006339
90-006507
90-006518
90-006520
90-006529
90-006531
90-006536
90-006549
Predator/Prey Relationships
90-001194
90-001196
90-002247
90-003969
90-004602
90-004630
90-005775
90-006460
Primary Production
90-001145

...CONTINUED...
Management/Research--Lakes
Production
90-001105
90-001150
90-001184
90-002835
90-006450
Public Relations
90-002714
Recreational Benefits
90-001112
90-001198
90-004608
Recreational Carrying Capacity
90-001202
Recruitment
90-002167
90-002175
90-002857
90-003851
90-003857
90-004625
90-005654
90-006320
90-006514
90-006532
Regulations/Fishing Gear
90-004512
Regulations/General
90-002164
90-004607
90-004618
90-004640
90-006531
Saline Lakes
90-001105
90-001117
90-002847
90-004606
Salt Lakes
90-002818
Sampling
90-002159
90-002979
90-004584
90-004852
Sedimentation
90-002847
Social Values
90-002714
90-004607
90-004612
Spawning Substrates
90-001932
Species Diversity
90-001166
90-006506
Sportfishing
90-001164
90-002843
90-006520
90-006534
Stock Assessment
90-001166
90-001171
90-002728
90-002981
90-004629
90-004640
90-005493
Stocking/Introductions
90-000992

...CONTINUED...
Management/Research--Lakes
Stocking/Introductions
90-001214
90-002193
90-002585
90-002726
90-002728
90-002730
90-002850
90-002855
90-003896
90-003946
90-004502
90-004504
90-004506
90-004511
90-004512
90-004601
90-004603
90-004604
90-004605
90-004617
90-004620
90-004624
90-004626
90-004627
90-004630
90-004632
90-005117
90-005703
90-006095
90-006376
90-006381
90-006384
90-006503
90-006508
90-006512
90-006515
90-006516
90-006519
90-006523
90-006524
90-006525
90-006527
90-006530
90-006537
90-006545
Supplemental Stocking
90-004507
90-004628
Temperature
90-005105
Thermal Pollution
90-002532
Trophic Relationships
90-000158
90-000159
90-000633
90-000823
90-001107
90-001110
90-001128
90-001134
90-001149
90-001151
90-001156
90-001162
90-001163
90-001186
90-001188
90-001194

...CONTINUED...
Management/Research--Lakes
Trophic Relationships
90-001208
90-001210
90-001499
90-001726
90-002147
90-002251
90-002273
90-002282
90-002830
90-002834
90-002837
90-002840
90-002841
90-002846
90-002852
90-002855
90-002856
90-003997
90-004511
90-004602
90-004603
90-004604
90-004606
90-004618
90-004621
90-004623
90-004624
90-004682
90-005112
90-005113
90-005116
90-005117
90-005764
90-006067
90-006068
90-006095
90-006381
90-006384
90-006460
90-006503
90-006506
90-006507
90-006508
90-006509
90-006512
90-006513
90-006514
90-006515
90-006516
90-006517
90-006518
90-006519
90-006523
90-006524
90-006525
90-006526
90-006527
90-006528
90-006529
90-006530
90-006532
90-006533
90-006535
90-006536
90-006537
90-006538
90-006539
90-006540

...CONTINUED...
Management/Research--Lakes
Trophic Relationships
90-006541
90-006543
90-006544
90-006545
90-006549
Tropics
90-001127
90-005703
Turbidity
90-001148
Urban Development
90-001158
Urban Fishing
90-001181
Water Level Fluctuations
90-001157
90-002185
90-002839
90-003690
90-004628
90-004637
90-006779
Water Quality
90-001117
90-001130
90-001177
90-001182
90-001198
90-002855
90-003188
90-004595
90-004622
90-004631
90-004634
90-005113
90-005117
90-006503
90-006522
90-006524
90-006525
90-006529
90-006536
Watershed Management
90-006779
Wetlands
90-004551
90-006521
Wild Trout Management
90-005654
90-005724
Winterkill
90-000030
Year Class Strength
90-001252
Yield
90-001182
90-002835
90-004506
90-004627
90-004634
Management/Research--Marine
Abundance/Factors of
90-000575
90-000578
90-000579
90-000582
90-000584
90-000588

...CONTINUED...
Management/Research--Marine
Abundance/Factors of
90-001057
90-001366
90-001370
90-001371
90-001379
90-001382
90-001384
90-001393
90-001407
90-002223
90-002307
90-002315
90-002762
90-002928
90-003852
90-003853
90-003855
90-003915
90-004050
90-004057
90-004059
90-004260
90-004550
90-004710
90-004731
90-004732
90-004739
90-004742
90-004767
90-004768
90-004769
90-005681
90-005687
90-005702
90-005861
90-005862
90-006678
90-006695
90-006701
90-006702
90-006709
90-006712
90-006715
Access
90-002915
90-002958
90-004487
Administration
90-002932
Aquariums
90-001600
Aquatic Plants
90-004877
Arctic Habitat
90-002699
90-006702
Artificial Reefs
90-001390
90-001453
90-002705
90-004727
90-004788
90-004795
90-005549
90-005830
90-006351
90-006687
90-006688
90-006716

...CONTINUED...
Management/Research--Marine
Artificial Reefs
90-006724
Artisanal Fisheries
90-004745
90-004776
90-004796
90-004803
Baitfish
90-002910
90-005767
Bank Revetment
90-002696
Bays
90-000586
90-000697
90-000846
90-000867
90-002495
90-002498
90-002526
90-002552
90-002725
90-002900
90-002918
90-002928
90-002959
90-002998
90-003858
90-003904
90-003920
90-004732
90-004784
90-004807
90-005549
90-005629
90-005779
90-006312
90-006571
90-006678
90-006709
90-006725
Benthos
90-004721
Biomass
90-002926
90-004575
90-004738
90-004767
90-004805
90-004813
90-006691
90-006718
Catch Per Unit Effort
90-001393
90-001402
90-002165
90-002912
90-003852
90-004480
90-004482
90-004484
90-004734
90-004736
90-004766
90-004770
90-004776
90-004787
90-004790
90-004808
90-006679

...CONTINUED...
Management/Research--Marine
Catch Per Unit Effort
90-006686
90-006693
90-006728
Coastal Habitat
90-000813
90-000815
90-000841
90-000941
90-000983
90-001272
90-001376
90-001380
90-001381
90-001395
90-001396
90-001408
90-001411
90-001413
90-001415
90-002482
90-002488
90-002500
90-002514
90-002695
90-002699
90-002708
90-002789
90-002797
90-002814
90-002913
90-002917
90-002940
90-002946
90-002948
90-002949
90-002955
90-002958
90-003183
90-003915
90-003934
90-004248
90-004286
90-004414
90-004475
90-004606
90-004719
90-004749
90-004780
90-004802
90-004807
90-004816
90-004820
90-005636
90-006682
90-006689
90-006707
90-006727
Commercial Fishing
90-000663
90-001050
90-001363
90-001364
90-001365
90-001378
90-001382
90-001392
90-001399
90-001402
90-001407

...CONTINUED...
Management/Research--Marine
Commercial Fishing
90-002138
90-002315
90-002907
90-002911
90-002912
90-002916
90-002923
90-002925
90-002927
90-002928
90-002931
90-002933
90-002934
90-002935
90-002937
90-002941
90-002944
90-002953
90-002956
90-002960
90-002961
90-003822
90-004480
90-004484
90-004486
90-004490
90-004521
90-004533
90-004553
90-004713
90-004714
90-004720
90-004722
90-004724
90-004725
90-004729
90-004734
90-004753
90-004773
90-004774
90-004775
90-004783
90-004791
90-004793
90-004797
90-004808
90-004810
90-004819
90-004840
90-006341
90-006400
90-006686
90-006696
90-006699
90-006725
90-006728
Coral Reefs
90-001380
90-001405
90-002272
90-002698
90-005765
90-006690
90-006703
90-006705
Data Bases
90-004022
Discarded Bycatch
90-001372

...CONTINUED...
Management/Research--Marine
Discarded Bycatch
90-004716
90-004778
90-004779
Distribution/Factors of
90-004768
Dredging
90-002526
Economic Value
90-001378
90-001399
90-002929
90-002938
90-004546
90-004716
90-004757
90-004774
90-004781
90-004782
90-004793
90-004796
90-004811
90-004828
90-004840
90-006341
90-006346
90-006347
90-006387
90-006719
Economics
90-002938
90-004483
90-004487
90-004491
90-004521
90-004549
90-004772
90-004783
90-004785
90-004798
90-004801
90-004811
90-006387
90-006722
90-006728
Environmental Impact Assessments
90-002547
90-006336
90-006500
Eutrophication
90-002498
90-004877
Exotic Species
90-000697
Exploitation Rates
90-001057
90-001077
90-001372
90-001377
90-001387
90-001399
90-001403
90-001540
90-002138
90-002154
90-002285
90-002910
90-002920
90-002929
90-002937

...CONTINUED...
Management/Research--Marine
Exploitation Rates
90-002947
90-002960
90-004048
90-004050
90-004476
90-004482
90-004561
90-004657
90-004713
90-004718
90-004724
90-004735
90-004736
90-004741
90-004747
90-004763
90-004764
90-004770
90-004780
90-004805
90-004810
90-004826
90-006343
90-006350
90-006714
90-006719
90-006726
90-006729
Exploratory Fishing
90-004797
90-006437
90-006725
Fish Aggregation Devices
90-003743
90-004538
90-004727
90-004744
90-004795
90-005531
90-006351
90-006405
90-006716
90-006724
Fisheries
90-001052
90-001083
Fisherman/Angler Surveys
90-002976
90-004580
90-004745
90-004760
90-004809
90-006344
Fishery Associations
90-001397
90-002927
90-006729
Fishery Cooperatives
90-004775
Fishing Docks
90-006684
Fishing Tournaments
90-004771
Flotsam
90-002919
Forecasting
90-001016
90-001028
90-001081

...CONTINUED...
Management/Research--Marine
Forecasting
90-001388
90-001402
90-004746
90-004748
Funding
90-004783
General
90-001374
90-001391
90-001394
90-001404
90-001894
90-002076
90-002947
90-004733
90-004759
90-004818
90-006704
General/Atlantic Ocean
90-001366
90-002908
90-002922
90-002923
90-002930
90-002935
General/Atlantic Ocean, North
90-001397
General/Atlantic Ocean, Northeastern
90-001406
General/Belize
90-001405
General/Bering Sea
90-001382
90-001407
General/Canada
90-001369
90-001412
90-002908
90-002922
90-002932
90-002935
General/Canada: Bay of Fundy
90-002927
General/Canada: Newfoundland
90-002931
General/Canada: Nova Scotia
90-002915
General/Canada: Prince Edward Island
90-002925
General/Caribbean Area
90-001381
General/Greenland
90-001373
General/Gulf of Mexico
90-002914
90-004047
General/Indonesia
90-001411
General/Japan
90-001394
90-001404
General/Mediterranean Region
90-001375
General/Pacific Ocean
90-001369
90-001412
General/Pacific Ocean, South
90-001366

...CONTINUED...
Management/Research--Marine
General/United States: New England
90-001407
Groundfish
90-001175
90-001369
90-001412
90-002935
90-004440
90-004491
90-004533
90-004582
90-004589
90-004716
90-004726
90-004728
90-004750
90-004801
90-006437
90-006681
90-006706
90-006710
90-006714
Habitat Alterations
90-001376
90-001380
90-002695
90-002698
90-002699
90-002708
90-002917
90-006312
90-006336
Habitat Evaluation
90-002952
90-004804
90-004880
Habitat Improvement/General
90-002998
90-003825
90-004727
90-004880
90-005830
90-006312
90-006430
Habitat Protection
90-000850
90-000941
90-000983
90-001386
90-002958
90-004765
90-004802
90-004803
90-006679
90-006687
90-006689
90-006705
Handbooks
90-004039
Harvest
90-001363
90-001378
90-001382
90-001407
90-001540
90-002713
90-002924
90-002928
90-002953

...CONTINUED...
Management/Research--Marine
Harvest
90-003900
90-004260
90-004440
90-004477
90-004480
90-004481
90-004484
90-004485
90-004486
90-004553
90-004714
90-004728
90-004746
90-004747
90-004748
90-004751
90-004758
90-004759
90-004766
90-004767
90-004780
90-004790
90-004793
90-004808
90-004810
90-005807
90-006234
90-006403
90-006438
90-006694
90-006700
90-006710
90-006713
90-006714
History
90-006343
Hooking/Handling Mortality
90-005872
Interagency Cooperation
90-002927
International Fisheries
90-001400
90-001433
90-002924
90-002939
90-004715
90-004773
90-004798
90-004801
90-006729
Islands
90-002909
90-004742
90-004743
90-004803
90-005600
90-005624
90-005830
90-005855
90-005857
90-006720
Jurisdiction
90-004487
90-004724
90-004774
90-004781
90-004785
90-004801
90-006346

...CONTINUED...
Management/Research--Marine
Jurisdiction
90-006713
90-006721
Kelp Forests
90-004739
90-006701
Lagoons
90-000565
90-001539
90-002180
90-002243
90-002910
90-002952
90-003802
90-004730
90-004731
90-004765
90-004877
90-004880
90-005676
90-005767
90-005830
90-006430
Law of the Sea
90-002924
90-004491
90-004717
90-004773
90-004774
90-004785
90-004798
90-006346
90-006680
90-006683
90-006713
90-006718
Laws/Law Enforcement
90-001369
90-001394
90-001400
90-001404
90-001412
90-002547
90-002908
90-002915
90-002924
90-002927
90-002930
90-002936
90-002939
90-002956
90-002957
90-004523
90-004711
90-004717
90-006681
90-006692
90-006706
90-006722
License Sales
90-001394
90-001404
Mangroves
90-001411
90-006698
90-006723
Marine Reserves
90-004711
90-004737
90-004802

...CONTINUED...
Management/Research--Marine
Marine Reserves
90-004803
90-006687
Marketing
90-004483
90-004491
90-004796
90-004801
90-004811
90-006697
Marshes
90-000941
Marshes, Salt
90-002695
90-004039
Maximum Sustainable Yield
90-002154
90-002943
90-003982
90-006730
Microhabitat
90-001408
90-003934
Midwater Structures
90-001390
Mitigation
90-004880
Modeling
90-001052
90-001057
90-001083
90-001383
90-001433
90-004547
90-004549
90-004557
90-006726
Mortality Rates
90-002154
Multiple Use
90-004729
90-004773
Multispecies Management
90-001065
90-001077
90-001382
90-001407
90-004566
90-004737
Nursery Areas
90-000586
90-000601
90-001408
90-002959
90-003802
90-004710
90-005104
90-005629
90-006682
90-006715
Optimum Sustainable Yield
90-004546
90-004549
90-004735
90-004768
Personnel
90-004753
90-004774
90-004828
Planning
90-001397

...CONTINUED...
Management/Research--Marine
Planning
90-002908
90-002930
90-004770
90-004781
90-004786
90-004791
90-004799
90-004817
90-004845
90-006692
90-006697
90-006708
Pollution
90-000805
90-000813
90-000815
90-000832
90-000841
90-000846
90-000850
90-000867
90-001385
90-002482
90-002488
90-002495
90-002497
90-002498
90-002500
90-002514
90-002517
90-002526
90-002543
90-002547
90-002552
90-002553
90-002578
90-002699
90-002705
90-002797
90-002813
90-002814
90-002920
90-003183
90-004233
90-004248
90-004251
90-004259
90-004260
90-004272
90-004286
90-004295
90-004845
90-006056
90-006064
90-006071
90-006076
90-006082
90-006140
Pond Culture
90-001538
Population Studies
90-000149
90-000581
90-001057
90-001175
90-001364
90-001370
90-001371
90-001377

...CONTINUED...
Management/Research--Marine
Population Studies
90-001403
90-001406
90-001413
90-001450
90-002154
90-002165
90-002307
90-002312
90-002315
90-002912
90-002913
90-002933
90-002952
90-003822
90-003854
90-003855
90-003863
90-003907
90-003920
90-004050
90-004052
90-004476
90-004486
90-004514
90-004544
90-004550
90-004724
90-004726
90-004734
90-004735
90-004738
90-004740
90-004743
90-004746
90-004748
90-004749
90-004750
90-004758
90-004759
90-004761
90-004763
90-004768
90-004769
90-004777
90-004790
90-004794
90-004795
90-004806
90-004807
90-005676
90-005681
90-005687
90-005807
90-005855
90-005857
90-006350
90-006688
90-006694
90-006709
90-006711
90-006716
90-006720
90-006721
90-006727
Primary Production
90-003183
Production
90-000575
90-001398

...CONTINUED...
Management/Research--Marine
Production
90-002926
90-002929
90-002942
90-004826
90-005807
Public Relations
90-002908
90-002915
90-002922
90-002923
90-002925
90-002927
90-002930
90-002931
90-002935
90-002958
90-002976
Recreational Benefits
90-001028
90-001378
90-004715
90-004723
90-004729
90-004756
90-004757
90-004782
90-004784
90-004793
90-004809
90-004812
90-004814
90-004817
90-006344
90-006700
Recruitment
90-000579
90-001368
90-001384
90-002168
90-002940
90-002944
90-003854
90-003858
90-004050
90-004052
90-004057
90-004547
90-004550
90-004557
90-004730
90-004731
90-004736
90-004768
90-004770
90-004815
90-005678
90-005680
90-005702
90-006391
90-006712
90-006730
Reef Fish Communities
90-000493
90-001384
90-001386
90-001405
90-001409
90-001410
90-001540

...CONTINUED...
Management/Research--Marine
Reef Fish Communities
90-001600
90-002093
90-002101
90-002128
90-002250
90-002948
90-002950
90-003735
90-004752
90-004763
90-005082
90-005678
90-005798
90-005843
90-005873
90-006351
90-006679
90-006701
90-006711
90-006770
Regulations/Catch Limits
90-006681
90-006706
90-006713
90-006717
Regulations/Fishing Gear
90-004523
Regulations/General
90-001400
90-002957
90-004549
90-004720
90-004737
90-004759
90-004771
90-004781
90-004793
90-004803
90-006707
90-006710
90-006729
Regulations/Limited Entry
90-004487
90-004545
Regulations/Size Limits
90-000986
90-004581
90-004736
90-004751
Sampling
90-001175
90-002307
90-002949
90-004544
90-004553
90-006770
Sanctuaries
90-002988
90-004711
Satellite Imagery
90-004804
Seagrass Beds
90-001415
90-002250
90-002952
90-002998
90-004732
90-004802
90-005788

...CONTINUED...
Management/Research--Marine
Sedimentation
90-002918
Social Values
90-002909
90-004753
90-004760
90-004771
90-004789
90-006344
90-006346
90-006719
90-006722
Spawning Habitat Restoration
90-003825
Species Diversity
90-002919
90-002949
90-006695
90-006709
Sportfishing
90-001028
90-004728
90-004729
90-004754
90-004756
90-004760
90-004817
90-005681
90-006351
90-006387
90-006700
Stock Assessment
90-001037
90-001175
90-001369
90-001381
90-001383
90-001384
90-001401
90-001412
90-001456
90-002934
90-002951
90-002953
90-002954
90-003708
90-003854
90-003856
90-003863
90-003982
90-004545
90-004547
90-004561
90-004566
90-004575
90-004581
90-004718
90-004722
90-004740
90-004746
90-004751
90-004755
90-004758
90-004761
90-004792
90-004794
90-004800
90-004815
90-005652
90-005673

...CONTINUED...
Management/Research--Marine
Stock Assessment
90-006399
90-006682
90-006691
90-006714
90-006717
Stocking/Introductions
90-002725
90-006387
Subsistence Fishing
90-001367
90-002909
90-002910
Supplemental Stocking
90-003095
90-004514
90-006386
90-006391
90-006719
Technology
90-001385
Trophic Relationships
90-000155
90-000581
90-000654
90-001375
90-001395
90-002789
90-002910
90-002921
90-002946
90-002950
90-003374
90-003746
90-004762
90-004807
90-005624
90-005676
90-006685
90-006712
90-006725
Tropics
90-001386
90-001395
90-004547
90-004818
90-005720
90-005798
90-006679
90-006729
Urban Fishing
90-006684
Water Quality
90-006312
Year Class Strength
90-000582
90-003858
90-004792
Yield
90-000986
90-001290
90-006730
Management/Research--Ponds
Abundance/Factors of
90-004686
90-006640
Acidification
90-000833
90-001637
Aquatic Plants
90-000002

...CONTINUED...
Management/Research--Ponds
Aquatic Plants
90-000003
Baitfish
90-006638
Beaver Ponds
90-004686
Benthos
90-006639
Brush Shelters
90-006643
Economic Value
90-006638
Fertilization/Soil and Water
90-003074
Fish Aggregation Devices
90-006643
General
90-004615
General/Alaska
90-001096
90-001312
General/Indiana
90-001313
Habitat Improvement/General
90-004615
Invertebrates
90-001312
Islands
90-004687
Limnology
90-001633
Nutrient Control
90-001096
Nutrients
90-006641
Pollution
90-002483
Pond Liners
90-004274
Population Studies
90-004686
90-004687
90-006644
Predator/Prey Relationships
90-003056
Riparian Habitat
90-004688
Sampling
90-006436
Stocking/Introductions
90-004517
90-004938
Temperature
90-002262
Trophic Relationships
90-000078
90-001525
90-002236
90-002882
90-003056
90-003074
90-003733
90-004517
90-004686
90-006484
90-006640
90-006642
Wetlands
90-004688
90-006638

...CONTINUED...
Management/Research--Ponds
Winterkill
90-000030
Management/Research--Reservoirs
Abundance/Factors of
90-002883
90-004690
90-005684
90-006658
Aeration
90-002885
Biomass
90-004633
90-006657
Catch Per Unit Effort
90-002750
90-004633
90-004692
Commercial Fishing
90-002750
90-004689
90-004691
90-006660
Cooling Reservoirs
90-001095
90-001350
90-002056
90-006176
Drawdowns
90-002771
Environmental Impact Assessments
90-001324
Eutrophication
90-001342
90-002889
90-006655
90-006656
Exploitation Rates
90-001314
90-004692
90-006660
Fertilization/Soil and Water
90-006650
Fisherman/Angler Surveys
90-001354
Forecasting
90-004633
General
90-001318
90-001349
General/Asia
90-001325
90-001326
90-001327
90-001355
General/Bangladesh
90-001344
General/China
90-001338
90-001354
General/Europe
90-001328
General/India
90-001341
90-001346
90-001347
General/Indonesia
90-001322
90-001333
90-001334
General/Italy
90-001323

...CONTINUED...
Management/Research--Reservoirs
General/Japan
90-001337
General/Nepal
90-001342
90-001343
General/Nigeria
90-001317
General/North America
90-001324
General/Norway
90-000547
General/Philippines
90-001330
90-001331
General/South Africa
90-001329
General/South Carolina
90-001350
General/Spain
90-001316
General/Sri Lanka
90-001314
90-001315
90-001332
90-001340
90-001345
90-001348
90-001351
90-001352
90-001353
General/Thailand
90-001319
90-001321
Habitat Alterations
90-000977
90-001324
90-002706
90-004445
Habitat Evaluation
90-006648
Habitat Improvement/General
90-004468
Habitat Selection
90-004690
Harvest
90-005803
90-006646
Lake Classification
90-006648
Lake Renovation
90-002884
Limnology
90-001342
90-002885
90-002886
90-002887
90-003196
Maximum Sustainable Yield
90-004682
90-004691
Microhabitat
90-005507
Modeling
90-001335
90-001356
90-002886
90-004901
Multiple Use
90-001347
Nursery Areas
90-004901

...CONTINUED...
Management/Research--Reservoirs
Nutrient Control
90-002889
Nutrients
90-001336
Oxygen
90-002885
Planning
90-001315
90-001325
90-001346
Pollution
90-000806
90-000818
90-001267
Population Studies
90-001314
90-001320
90-001339
90-001348
90-002160
90-002288
90-002891
90-004409
90-004689
90-004690
90-004692
90-005675
90-006360
90-006651
90-006652
90-006654
90-006657
90-006658
Post-Impoundment Studies
90-000547
90-000806
90-001148
90-001347
Predator/Prey Relationships
90-005675
Primary Production
90-002883
Production
90-001331
90-001349
90-002883
Public Relations
90-001315
Recruitment
90-005684
90-006659
Regulations/Size Limits
90-006360
Reservoir Aging
90-002884
Reservoir Release Effects
90-001280
90-001335
90-002771
Sampling
90-002891
90-006436
Sedimentation
90-002884
90-004445
Species Diversity
90-006658
Sportfishing
90-001320
Stock Assessment
90-001328

...CONTINUED...
Management/Research--Reservoirs
Stocking/Introductions
90-001320
90-002287
90-002724
90-002888
90-004468
90-006375
90-006377
90-006647
90-006651
90-006652
90-006655
Supplemental Stocking
90-004515
Tailwaters
90-001356
Temperature
90-002885
Trophic Relationships
90-001267
90-001328
90-001336
90-002888
90-002890
90-004682
90-004693
90-006377
90-006647
90-006649
90-006655
90-006656
90-006659
Tropics
90-002160
90-006656
90-006660
Water Level Fluctuations
90-004690
90-006659
Water Quality
90-000547
90-000806
90-001336
90-001355
90-001356
90-002886
90-002887
90-004310
90-004445
90-006659
Watershed Management
90-001031
Wetlands
90-004468
Management/Research--Rivers and Streams
Abundance/Factors of
90-000679
90-000834
90-000972
90-000984
90-000987
90-001019
90-001238
90-001294
90-002729
90-002858
90-002862
90-002863
90-002868
90-002879

...CONTINUED...
Management/Research--Rivers and Streams
Abundance/Factors of
90-003807
90-003862
90-004268
90-004513
90-005579
90-005682
90-005817
90-005841
90-005864
90-006569
90-006612
90-006621
90-006633
Acidification
90-000809
90-000834
90-002555
90-004245
90-004264
90-004268
90-004639
90-004676
90-006057
90-006065
90-006084
Alpine Streams
90-001228
90-001268
Angling
90-000987
Aquatic Plants
90-000002
90-000003
90-000005
Arctic Habitat
90-002878
90-006634
Artificial Spawning Beds
90-004671
90-006630
Backwater Lakes
90-000621
90-001291
90-002561
90-004041
90-005526
90-006582
90-006616
90-006630
Bank Revetment
90-000984
Beaver Ponds
90-006633
90-006634
Bibliographies
90-001458
Biomass
90-002859
90-004660
90-006629
Canals
90-006329
90-006555
Catch Per Unit Effort
90-001212
90-001248
90-002867
Channelization
90-006623

...CONTINUED...
Management/Research--Rivers and Streams
Cienegas
90-005770
Commercial Fishing
90-004680
Critical Habitat
90-002704
Dams
90-006431
Economic Value
90-002867
90-004268
90-004658
90-004673
Economics
90-001234
90-002861
Education
90-004454
Environmental Impact Assessments
90-002555
90-006588
Escapement
90-004793
90-004793
90-005713
90-005864
90-005867
90-006427
90-006428
90-006478
Exotic Species
90-004681
Exploitation Rates
90-000993
90-006358
90-006612
Fertilization/Soil and Water
90-002878
90-004656
90-004666
Fisherman/Angler Surveys
90-001297
Flood Control
90-006623
Floodplains
90-001118
90-002860
90-002872
90-003737
90-003850
90-004041
90-004652
90-005620
90-005731
90-006066
90-006294
90-006308
90-006587
90-006616
90-006618
90-006630
90-006637
Flow Regimes
90-001014
90-001078
90-001218
90-001226
90-001230
90-001232
90-001242

...CONTINUED...
Management/Research--Rivers and Streams
Flow Regimes
90-001248
90-001253
90-001259
90-001263
90-001266
90-001272
90-001274
90-001282
90-001287
90-001290
90-001298
90-001301
90-001302
90-002538
90-002791
90-002810
90-002853
90-002861
90-002866
90-002867
90-002870
90-002873
90-002879
90-003703
90-004474
90-004571
90-004573
90-004668
90-004671
90-004675
90-005662
90-005682
90-005699
90-006267
90-006306
90-006328
90-006439
90-006477
90-006567
90-006576
90-006577
90-006588
90-006599
90-006601
90-006606
90-006621
90-006622
90-006626
90-006632
90-006634
Forecasting
90-006478
Forestry Practices
90-001309
90-004661
90-006333
90-006338
General
90-001305
90-004643
90-006635
90-006664
General/Alaska
90-001268
90-001279
General/Arizona
90-001242
General/Australia
90-001227

...CONTINUED...
Management/Research--Rivers and Streams
General/Australia
90-001230
90-001232
90-001243
90-001266
90-001269
90-001271
90-001274
90-001287
General/Belgium
90-001237
General/Belgium: Meuse River
90-001236
General/California
90-001256
General/Canada: Quebec
90-001228
General/Colorado
90-001264
General/Denmark
90-001255
General/England
90-001221
90-001260
90-001303
General/Europe
90-001224
90-001247
90-001288
90-001300
90-001304
General/Europe: Pyrenees Region
90-001270
General/France
90-001235
General/Georgia
90-001220
General/Great Britain
90-001311
General/Indonesia
90-001277
General/Iowa
90-001217
General/Ireland
90-001258
90-001261
90-001262
General/Italy
90-001233
General/Japan
90-001211
General/Michigan
90-001246
General/Netherlands: Meuse River
90-001300
General/New Hampshire
90-001229
90-001254
General/New Mexico
90-006566
General/New Zealand
90-000851
90-001222
90-001223
90-001232
90-001289
90-001297
90-001298
90-001308
90-001309

...CONTINUED...
Management/Research--Rivers and Streams
General/Norway
90-001225
90-001263
90-001293
General/Panama
90-001283
General/Poland
90-001265
General/Scotland
90-001212
General/South Carolina
90-001219
General/Spain
90-001284
90-001285
90-001316
General/Sweden
90-001213
90-001293
General/Taiwan
90-001301
General/United States
90-001272
90-001282
General/United States, Eastern
90-001296
General/Wales
90-001240
General/West Germany
90-001281
Habitat Alterations
90-000809
90-000972
90-000974
90-000978
90-000982
90-000984
90-000985
90-001215
90-001216
90-001226
90-001243
90-001250
90-001253
90-001254
90-001294
90-001296
90-001306
90-001309
90-001465
90-002511
90-002701
90-002704
90-002707
90-002860
90-002866
90-002879
90-004447
90-004451
90-004457
90-004471
90-004472
90-004474
90-004652
90-004657
90-004661
90-004678
90-006307
90-006308
90-006317

...CONTINUED...
Management/Research--Rivers and Streams
Habitat Alterations
90-006324
90-006327
90-006328
90-006332
90-006334
90-006335
90-006337
90-006338
90-006555
90-006559
90-006578
90-006587
90-006607
90-006610
90-006614
90-006616
90-006618
90-006621
90-006621
90-006623
90-006636
90-006637
Habitat Evaluation
90-001216
90-001231
90-001266
90-001271
90-001298
90-002774
90-002810
90-002864
90-002875
90-003807
90-004457
90-004572
90-004665
90-004670
90-005617
90-006250
90-006453
90-006465
90-006560
90-006573
90-006593
90-006594
90-006614
90-006625
Habitat Improvement/General
90-001249
90-001250
90-001253
90-001257
90-001276
90-001296
90-001302
90-001307
90-004452
90-004649
90-004670
90-004675
90-006308
90-006332
90-006335
90-006576
90-006590
90-006620
90-006630
90-006636
Habitat Protection
90-001231

...CONTINUED...
Management/Research--Rivers and Streams
Habitat Protection
90-001232
90-001271
90-001298
90-004662
90-004664
90-004875
90-005642
90-006267
90-006327
90-006556
90-006571
90-006594
90-006595
90-006624
Habitat Rating Systems
90-006439
90-006597
Habitat Selection
90-006760
Harvest
90-004679
90-005803
90-006558
Impoundment
90-000974
90-000980
90-001216
90-001226
90-001465
90-002879
90-004300
90-004462
90-004641
90-004645
90-004678
90-004681
90-005864
90-006306
90-006335
90-006427
90-006428
90-006448
90-006477
90-006564
90-006576
90-006577
90-006588
90-006606
90-006611
Instream Flow
90-001013
90-001287
90-002861
90-002870
90-004474
90-004642
90-004654
90-004662
90-004664
90-004665
90-004668
90-004671
90-004869
90-006267
90-006332
90-006439
90-006453
90-006464
90-006465

...CONTINUED...
Management/Research--Rivers and Streams
Instream Flow
90-006477
90-006550
90-006557
90-006559
90-006561
90-006562
90-006563
90-006568
90-006570
90-006576
90-006577
90-006583
90-006586
90-006601
90-006608
90-006622
90-006626
90-006627
90-006628
90-006778
90-006782
Islands
90-002189
90-003861
Jurisdiction
90-006571
Land Use
90-001299
90-001306
90-004454
90-004685
Laws/Law Enforcement
90-004641
90-004869
Liming
90-004639
90-006551
Marshes
90-006600
Maximum Sustainable Yield
90-004682
Microhabitat
90-000486
90-000502
90-001291
90-002858
90-002860
90-003737
90-003753
90-003780
90-004573
90-004667
90-004675
90-004849
90-005522
90-005530
90-006306
90-006462
90-006560
90-006561
90-006565
90-006586
90-006598
90-006605
90-006616
90-006760
Mitigation
90-001215
90-004467

...CONTINUED...

Management/Research--Rivers and Streams
Mitigation
90-004641
90-004651
90-004869
90-006308
90-006335
90-006590
90-006626
Modeling
90-001014
90-002774
90-004571
90-004572
90-004596
90-004600
90-006566
Multiple Use
90-006552
90-006553
90-006568
90-006581
90-006602
90-006624
Nursery Areas
90-001291
90-002255
90-005692
Nutrient Spiraling
90-002853
90-002854
Nutrients
90-001285
90-002853
90-002854
90-002865
90-002878
90-002881
Optimum Sustainable Yield
90-004683
Oxbow Lakes
90-006630
Pipelines
90-006337
Planning
90-002861
90-004462
90-004870
90-004873
90-006575
90-006593
Pollution
90-000809
90-000812
90-000842
90-000851
90-000859
90-001244
90-001311
90-002465
90-002466
90-002511
90-002538
90-002560
90-002565
90-002707
90-002785
90-003002
90-003011
90-004234
90-004245

...CONTINUED...

Management/Research--Rivers and Streams
Pollution
90-004249
90-004263
90-004264
90-004286
90-004454
90-004666
90-006053
90-006066
90-006070
90-006074
90-006083
90-006088
90-006499
Population Studies
90-000509
90-000577
90-001226
90-001238
90-001245
90-001276
90-001278
90-001290
90-001301
90-001310
90-001660
90-001732
90-002163
90-002171
90-002174
90-002203
90-002220
90-002783
90-002859
90-002874
90-002876
90-002945
90-003861
90-004019
90-004268
90-004474
90-004489
90-004639
90-004645
90-004655
90-004657
90-004659
90-004660
90-004663
90-004667
90-004669
90-005651
90-005683
90-005712
90-005713
90-005847
90-006053
90-006554
90-006574
90-006578
90-006579
90-006582
90-006584
90-006585
90-006589
90-006596
90-006598
90-006605
90-006614
90-006615

...CONTINUED...
Management/Research--Rivers and Streams
Population Studies
90-006618
90-006637
Post-Impoundment Studies
90-004458
90-004645
Prairie Streams
90-002774
90-004685
Pre-Impoundment Studies
90-001278
90-004462
90-004655
Predator/Prey Relationships
90-001286
90-001310
90-002256
90-002863
90-002874
Production
90-001238
90-004644
90-006551
90-006629
Public Relations
90-006635
Recreational Benefits
90-000851
90-002867
90-002870
90-004673
90-004684
90-006568
90-006575
90-006602
Recruitment
90-000577
90-001019
90-002173
90-002189
90-002857
90-003646
90-003862
90-004663
90-004683
90-005662
90-005864
90-006428
90-006551
90-006567
Regulations/Catch and Release
90-006356
Regulations/General
90-001231
90-006358
Regulations/Limited Entry
90-004669
Regulations/Size Limits
90-000987
90-004489
Reservoir Release Effects
90-001216
90-001280
90-006558
90-006564
90-006775
Restoration of Anadromous Runs
90-002783
90-003057
90-003862

...CONTINUED...
Management/Research--Rivers and Streams
Restoration of Anadromous Runs
90-004543
90-004674
90-004677
Rice Paddies
90-006584
Riparian Habitat
90-001215
90-001228
90-001241
90-001273
90-001275
90-002861
90-002864
90-004447
90-004452
90-004649
90-004667
90-004668
90-005617
90-006327
90-006332
90-006552
90-006607
River Continuum Concept
90-001217
90-001220
90-001227
90-001229
90-001259
90-001282
90-001289
90-001295
90-004685
90-006573
Sampling
90-001454
90-003850
90-006615
Sedimentation
90-001292
90-006611
Social Values
90-006356
90-006556
Spawning Channels
90-004671
Spawning Substrates
90-004648
Species Diversity
90-002859
90-006585
90-006610
Sportfishing
90-000993
90-001212
90-001294
90-004673
90-004684
90-006554
90-006609
Stock Assessment
90-000679
90-001660
90-002173
90-002880
90-003850
90-003862
90-004041
90-004657

...CONTINUED...
Management/Research--Rivers and Streams
Stocking/Introductions
90-000993
90-002729
90-003057
90-003946
90-004508
90-004509
90-004513
90-004876
90-004903
90-005593
90-005651
90-006393
90-006580
90-006630
90-006653
Stream Classification
90-001251
90-002875
90-006306
Stream Improvement/General
90-001228
Subsistence Fishing
90-002872
90-004462
90-006294
90-006572
Supplemental Stocking
90-001019
90-003824
90-004674
Temperature
90-004647
90-004648
90-005582
90-006324
Trophic Relationships
90-001283
90-001310
90-002874
90-002877
90-002878
90-002945
90-004513
90-004639
90-004646
90-004652
90-004682
90-005770
90-006074
90-006591
90-006600
90-006613
Tropics
90-004875
90-006582
Trout Stream Management
90-006590
90-006593
90-006604
90-006620
Urban Development
90-001264
Volunteer Programs
90-006635
Wales: Wye River
90-001239
Water Level Fluctuations
90-002561
Water Quality
90-001211

...CONTINUED...
Management/Research--Rivers and Streams
Water Quality
90-001234
90-001257
90-001264
90-001296
90-001299
90-001307
90-001311
90-002653
90-002868
90-002869
90-002881
90-004286
90-004300
90-004644
90-004653
90-004676
90-004685
90-005683
90-006448
90-006557
90-006564
90-006581
90-006606
90-006617
Watershed Management
90-001078
90-001232
90-001275
90-001299
90-002861
90-002866
90-002867
90-002870
90-004642
90-004649
90-004651
90-004654
90-004662
90-004664
90-004668
90-004678
90-004869
90-004870
90-004871
90-004873
90-006083
90-006464
90-006550
90-006553
90-006562
90-006563
90-006568
90-006570
90-006575
90-006583
90-006586
90-006595
90-006606
90-006608
90-006622
90-006624
90-006628
90-006778
Wetlands
90-002860
90-004451
90-005620
90-006584
90-006630

...CONTINUED...
Management/Research--Rivers and Streams
Wetlands
90-006631
90-006634
Wild Trout Management
90-001234
90-002150
90-002880
90-006554
90-006603
90-006619
Yield
90-001290
Modeling
Abundance/Factors of
90-001051
90-001057
90-001080
90-002187
90-002315
90-002762
90-002772
90-002775
90-005861
90-006621
Acid Precipitation
90-002780
Acidification
90-000852
90-002520
90-002555
90-002776
90-002788
90-004252
90-006494
Age/Growth
90-001027
90-001038
90-002160
90-002807
90-002808
90-003815
90-004548
90-004555
90-004581
90-004751
90-005799
90-005821
90-006458
Age/Length Composition
90-001045
Artificial Reefs
90-000965
Behavior
90-001035
90-006488
Bioassay Techniques
90-002629
Bioenergetics
90-001017
90-001020
90-002251
90-002763
90-002778
90-002806
90-003517
90-006458
90-006484
90-006501
Biomagnification
90-002770

...CONTINUED...
Modeling
Biomass
90-004767
90-006463
Biomass Dynamics
90-001029
90-001047
90-002816
Catch Curves
90-001033
90-001034
Catch Per Unit Effort
90-001011
90-001077
90-001079
90-004588
90-004592
90-006456
Catch-Age Analysis
90-006438
Climate
90-006446
90-006457
90-006460
90-006471
90-006485
Cohort Analysis
90-001065
90-001066
90-002766
Commercial Fishing
90-001011
90-001364
90-002933
90-004691
90-006469
Competition
90-004593
Computer Applications
90-001011
90-001032
90-001033
90-001044
90-001048
90-001049
90-001055
90-001062
90-001063
90-002765
90-002768
90-002770
90-002780
90-002784
90-002785
90-002794
90-002799
90-002802
90-002815
90-002816
90-002817
90-004568
90-006435
90-006482
Culture/Propagation
90-000066
90-003169
90-004901
90-004914
90-004919
90-006441
90-006490

...CONTINUED...
Modeling
Culture/Propagation
90-006495
Digestive System
90-006444
Distribution/Vertical
90-003917
Drawdowns
90-002771
Economic Value
90-004546
90-004549
90-006346
Economics
90-006449
Ecosystems
90-001136
90-001153
90-004600
Environmental Impact Assessments
90-002794
90-002802
90-002815
Erosion
90-001072
Escapement
90-001058
90-002781
90-004582
Eutrophication
90-002785
90-002804
Exploitation Rates
90-001057
90-001077
90-004736
90-006447
90-006455
90-006483
90-006726
Extinction
90-004558
90-006470
Fecundity
90-002803
90-004586
90-006483
Fisheries
90-001029
90-001032
90-001036
90-001043
90-001047
90-001048
90-001052
90-001055
90-001061
90-001063
90-001064
90-001083
90-001090
90-001383
90-006566
Fishing Gear
90-002790
90-004531
90-004564
90-004588
Floods
90-001092
Flow Regimes
90-001014

...CONTINUED...
Modeling
Flow Regimes
90-001078
90-001218
90-002791
90-002867
90-004571
90-004573
90-006448
90-006588
Food Supply
90-006495
Foods/Feeding
90-000194
90-001017
90-001020
90-001035
90-001082
90-002251
90-002807
90-004574
90-005169
90-005751
90-006458
90-006462
90-006479
Forecasting
90-001015
90-001025
90-001028
90-001035
90-001058
90-001073
90-001074
90-001081
90-001088
90-001182
90-002772
90-006446
90-006457
90-006460
90-006471
90-006478
90-006492
90-006493
Forestry Practices
90-006338
General
90-004556
Genetics
90-001019
90-001087
90-002777
90-002781
90-003675
90-004579
GIS
90-004551
Groundfish
90-004582
Habitat Alterations
90-001018
90-002702
90-006338
90-006620
Habitat Evaluation
90-001012
90-002761
90-004572
90-004600
90-006453

...CONTINUED...
Modeling
Habitat Evaluation
90-006648
Habitat Rating Systems
90-001012
90-002761
90-006306
90-006439
Habitat Selection
90-001364
90-006501
Harvest
90-001073
90-001088
90-002711
90-004582
90-006456
HSI
90-001054
90-002774
90-002810
90-004573
90-004665
90-006439
90-006465
90-006577
Hydraulic Models
90-004596
Illegal Harvest
90-006455
Instream Flow
90-001013
90-001054
90-002861
90-004571
90-004642
90-006435
90-006439
90-006453
90-006464
90-006465
90-006477
90-006482
90-006487
90-006559
90-006561
90-006588
90-006628
Larval Drift
90-002792
Length Frequencies
90-004548
90-004751
Length-Weight Relationships
90-004581
90-004586
Liming
90-004252
Limnology
90-002784
90-002805
90-002886
90-006434
90-006489
Mark/Recapture
90-006433
90-006473
Marketing
90-001433
Mate Selection
90-005540

...CONTINUED...
Modeling
Maturation
90-004587
Maximum Sustainable Yield
90-003982
90-004691
90-004764
90-006471
90-006483
Microhabitat
90-004573
Migration
90-003911
90-006467
Morphoedaphic Index
90-006450
90-006463
Morphology
90-000194
90-001069
90-001664
90-005169
Mortality Rates
90-001027
90-001038
90-001065
90-002795
90-002800
90-004051
90-004061
90-004548
90-004581
90-004591
90-005861
90-005863
90-006447
90-006769
Multispecies Management
90-001077
90-004566
90-006449
90-006469
Nets/Netting
90-002790
Nutrients
90-002900
90-004596
90-006489
Oceanography
90-002955
Optimum Sustainable Yield
90-004546
90-004549
90-004582
Parasites/Diseases
90-000787
90-002800
Phosphorus
90-001116
90-002778
90-004595
Phytoplankton
90-002785
90-002787
Pollution
90-000821
90-000852
90-000855
90-001026
90-002520
90-002529

...CONTINUED...

Modeling
Pollution
90-002538
90-002765
90-002768
90-002769
90-002770
90-002780
90-002797
90-002799
90-002813
90-002814
90-006443
90-006470
90-006499
90-006500
Population Genetics
90-003723
Population Studies
90-000194
90-000935
90-001023
90-001057
90-001060
90-001077
90-001364
90-002187
90-002190
90-002766
90-002777
90-002781
90-002783
90-002786
90-002800
90-002808
90-002933
90-004558
90-004564
90-004578
90-004579
90-004594
90-004768
90-006445
90-006447
90-006454
90-006466
90-006470
90-006472
90-006479
Predator/Prey Relationships
90-001020
90-001030
90-001035
90-001082
90-002091
90-002793
90-006484
Primary Production
90-004685
90-006450
Production
90-001051
90-001080
90-002806
90-006450
Rearing Density
90-004901
Recreational Benefits
90-001028
90-002867
90-004568

...CONTINUED...

Modeling
Recreational Benefits
90-006449
90-006455
Recruitment
90-000577
90-001079
90-001088
90-002764
90-002782
90-002798
90-002809
90-004430
90-004547
90-004582
90-004736
90-004768
90-006461
90-006484
Regulations/General
90-004581
90-006461
Reproduction
90-002777
90-002781
90-002809
90-005592
Reservoir Release Effects
90-001335
Reservoirs
90-001335
90-001356
Sampling
90-006436
Sedimentation
90-001059
90-001292
90-004585
Shoaling Behavior
90-006491
Social Values
90-006346
Stock Assessment
90-001051
90-001080
90-001383
90-002786
90-004547
90-004550
90-004566
90-006759
Stock Identification
90-006481
Stocking/Introductions
90-001019
90-001049
90-004593
90-006376
90-006480
Survival
90-002792
90-002795
90-002807
90-003815
90-004061
90-005592
90-005863
90-006495
Swimming Performance
90-001754
Temperature
90-001013

...CONTINUED...
Modeling
Temperature
90-001218
90-006448
Tides
90-001636
Time Series Analysis
90-001081
90-004592
Toxicology
90-000876
90-002589
90-002611
90-002629
90-004358
90-004552
90-004554
90-006161
90-006163
90-006442
90-006454
Trophic Relationships
90-000823
90-002682
90-002779
90-002789
90-002793
90-004600
90-006434
90-006484
90-006489
90-006655
Virtual Population Analysis
90-004583
90-006438
von Bertalanffy Growth Function
90-000659
90-001024
90-001038
90-001071
90-001079
90-001089
90-002808
90-005799
90-006468
Water Quality
90-001130
90-001356
90-002787
90-002797
90-002805
90-002812
90-004595
90-006448
90-006617
Watershed Management
90-001031
90-001078
90-004596
90-006780
90-006781
Yield
90-001182
90-004564
90-006480
Yield-per-Recruit
90-001077
90-004557
90-004583
90-006459
90-006480

...CONTINUED...
Modeling
Yield-per-Recruit
90-006730
Zoogeography
90-001012
Morphology
Abnormalities
90-000164
90-001651
90-001694
90-003237
90-004192
90-004216
90-004227
90-005123
90-005137
90-005155
90-005164
Age/Growth
90-000166
90-000170
90-000198
90-000476
90-000668
90-000670
90-000671
90-000673
90-001647
90-001668
90-001688
90-001699
90-001712
90-001722
90-001750
90-002286
90-002290
90-002296
90-002297
90-002298
90-002916
90-003212
90-003263
90-003831
90-003981
90-003985
90-003988
90-003992
90-003995
90-004005
90-004007
90-004009
90-005128
90-005140
90-005154
90-005268
90-005792
90-005798
90-005800
90-005811
90-005815
90-005824
90-005825
Air Breathing
90-000359
90-001650
90-001717
90-001718
90-003259
90-003739
Ampullae of Lorenzini
90-000196

...CONTINUED...
Morphology
Auditory Sense
90-000168
90-001716
Bioluminescence
90-005529
Body Form
90-000194
90-001642
90-003680
90-004531
Brain
90-000190
90-000451
90-001684
90-001703
90-001725
90-001838
90-003233
90-003442
90-003871
Branchial Basket
90-001670
90-003200
Buoyancy Control
90-001642
Cardiovascular System
90-001669
90-001717
90-001718
90-003213
90-005136
Caudal Neurosecretory System
90-001652
90-003270
Chloride Cells
90-000319
90-001648
90-001720
90-003204
90-003454
Chromaffin Cells
90-005265
Cojoined Twins
90-005123
Coloration
90-000163
90-000169
90-000185
90-000478
90-001646
90-001704
90-001713
90-003205
90-003214
90-003225
90-003244
90-003262
90-004058
90-004227
90-005157
90-005170
90-005171
90-005505
Condition Factors
90-000195
90-001021
90-003266
90-003986
Crypsis
90-000478

...CONTINUED...
Morphology
Crypsis
90-001594
90-001713
90-003214
90-003225
90-005170
Cytology
90-000176
90-000188
90-001644
90-001648
90-001661
90-001677
90-001686
90-001696
90-001706
90-001720
90-001723
90-001724
90-001733
90-001734
90-001988
90-003204
90-003208
90-003215
90-003217
90-003228
90-003231
90-003243
90-003250
90-003260
90-003309
90-003435
90-004216
Defensive Mechanisms
90-003763
90-005170
90-005171
90-005505
Dentition
90-001708
90-002064
Dictionaries
90-001728
Dictionaries/Languages
90-001728
Digestive System
90-001644
90-001662
90-001682
90-001694
90-001695
90-001715
90-001738
90-003207
90-003211
90-003223
90-003224
90-003235
90-003255
90-003266
90-005646
Early Development
90-000160
90-000161
90-000163
90-000187
90-000200
90-000205
90-000660

...CONTINUED...
Morphology
Early Development
90-001649
90-001656
90-001658
90-001678
90-001685
90-001692
90-001693
90-001694
90-001710
90-001715
90-001735
90-001813
90-001988
90-002000
90-002046
90-003208
90-003212
90-003227
90-003232
90-003237
90-003242
90-003243
90-003245
90-003259
90-003262
90-003264
90-003266
90-003331
90-003450
90-003467
90-003816
90-004081
90-005121
90-005127
90-005137
90-005141
90-005144
90-005145
90-005150
90-005151
90-005153
90-005155
90-005156
90-005159
90-005161
90-005162
90-005168
90-005268
90-005427
90-005800
90-005825
Eggs
90-000169
90-000182
90-000188
90-000208
90-001661
90-001723
90-002196
90-003203
90-003215
90-003239
90-003246
90-005093
90-005145
90-005161
90-005255
90-005361
90-005365

...CONTINUED...
Morphology
Electric Organs
90-000296
90-005191
Electroreception
90-000196
Embryology
90-000164
90-000169
90-000182
90-000187
90-000191
90-000200
90-000205
90-000208
90-001656
90-001698
90-001714
90-001734
90-001735
90-002027
90-003208
90-003246
90-003450
90-003787
90-003884
90-005127
90-005156
90-005159
90-005160
90-005255
90-005361
Endocrinology
90-000239
90-001838
90-003229
90-005126
90-005166
Epidermis
90-000165
90-000875
90-001737
90-003210
90-003250
90-005165
Evolution
90-000173
90-000175
90-000190
90-000196
90-000203
90-000210
90-000469
90-001642
90-001700
90-001710
90-001721
90-001726
90-001745
90-001746
90-001749
90-001848
90-002064
90-002072
90-003205
90-003666
90-003685
90-004086
90-005167
90-005168
Excretory System
90-000180

...CONTINUED...
Morphology
Eyes
90-000186
90-000193
90-003220
90-003243
90-003331
90-003407
90-003602
90-003612
90-005154
90-005167
90-005299
90-005304
Fertilization
90-001676
90-003203
Fin Rays
90-000671
90-000673
90-003985
Fins
90-000181
90-000194
90-000201
90-000597
90-001736
90-005143
90-005164
90-005171
Foods/Feeding
90-000193
90-000199
90-000210
90-000644
90-001663
90-001681
90-001689
90-001700
90-001711
90-001746
90-001749
90-002125
90-002258
90-002267
90-002993
90-003236
90-003255
90-003263
90-005148
90-005169
90-005746
General
90-001664
90-001689
90-001709
90-001728
Gill Rakers
90-000644
90-001681
90-001711
90-002125
Gills
90-000162
90-000319
90-000359
90-000902
90-001648
90-001718
90-003204
90-003221

...CONTINUED...
Morphology
Gills
90-003259
90-003454
90-004368
90-005130
90-005132
90-005172
90-005427
90-005646
Gonads
90-003229
90-005125
90-005166
Head
90-000160
90-000161
90-000164
90-000171
90-000210
90-001645
90-001651
90-001663
90-001703
90-001717
90-001718
90-001726
90-001741
90-001743
90-003201
90-003202
90-003234
90-005134
90-005135
90-005138
Heart
90-000177
90-000206
90-000213
90-000215
90-002440
90-003213
90-006006
Hematology
90-000358
90-001686
90-003217
90-004216
Hermaphroditism
90-000184
90-001655
90-003206
90-005125
90-005157
90-005695
Histology
90-000177
90-000178
90-000180
90-000192
90-000202
90-000205
90-000297
90-000298
90-000451
90-000875
90-000902
90-001643
90-001657
90-001665
90-001683

...CONTINUED...
Morphology
Histology
90-001685
90-001705
90-001706
90-001731
90-001737
90-001738
90-001813
90-001838
90-002000
90-002002
90-002215
90-002368
90-003207
90-003210
90-003211
90-003216
90-003219
90-003223
90-003226
90-003229
90-003234
90-003251
90-003254
90-003259
90-003261
90-003292
90-003321
90-003434
90-003442
90-003612
90-003869
90-004368
90-004382
90-005132
90-005136
90-005160
90-005162
90-005165
90-005167
90-005247
90-005269
90-005304
90-005317
90-005350
90-006006
90-006122
90-006146
90-006371
Hybridization
90-003699
Injuries
90-001651
Jaws
90-000185
90-000199
90-001663
90-001689
90-001714
90-001746
90-001749
90-003685
90-004192
90-005121
90-005169
Kidneys
90-000180
90-000192
90-001685
90-001976

...CONTINUED...
Morphology
Kidneys
90-003226
90-003612
90-005136
Lateral Line System
90-000209
90-001710
90-001739
90-001745
90-003268
90-003597
90-005163
90-005168
Length-Weight Relationships
90-000195
90-000198
90-001740
90-003264
90-003680
90-003879
90-004001
90-004531
90-004777
90-005139
Leydig Organ
90-001706
90-005166
Light Organs
90-001652
Liver
90-001988
Meristic Studies
90-000189
90-000197
90-001652
90-001659
90-001729
90-001732
90-002039
90-002067
90-003227
90-003240
90-003241
90-003256
90-003258
90-003262
90-003267
90-003271
90-003699
90-004012
90-004066
90-005822
90-005851
90-005887
Metamorphosis
90-000212
90-005151
90-005800
Mitochondria
90-001720
Morphometry
90-000191
90-000197
90-000718
90-001652
90-001660
90-001665
90-001666
90-001673
90-001687

...CONTINUED...
Morphology
Morphometry
90-001721
90-001729
90-001732
90-001741
90-001742
90-001746
90-002039
90-002067
90-002070
90-002222
90-002916
90-003172
90-003227
90-003240
90-003241
90-003249
90-003258
90-003265
90-003267
90-003271
90-003649
90-003662
90-003671
90-003986
90-004012
90-004637
90-005124
90-005128
90-005149
90-005822
Mouth Parts
90-000210
90-001663
90-005160
90-005169
90-005746
Mouth Size
90-000210
90-002258
90-002267
Mucous Cells
90-003309
90-005165
Musculature
90-000298
90-000452
90-000453
90-001645
90-001653
90-001699
90-001731
90-002002
90-003216
90-003228
90-003247
90-003434
90-003461
90-005247
90-005268
90-005269
90-006744
Nervous System
90-000162
90-000183
90-000209
90-001644
90-001653
90-001657
90-001696

...CONTINUED...
Morphology
Nervous System
90-003233
90-003270
90-003435
90-005126
90-005127
90-005130
90-005191
Olfaction
90-001643
90-001665
90-001744
90-001813
90-003238
Operculum
90-003739
Organ Weights
90-005158
Osteology
90-000160
90-000161
90-000170
90-000171
90-000173
90-000181
90-000201
90-000707
90-001663
90-001671
90-001672
90-001675
90-001679
90-001689
90-001691
90-001701
90-001702
90-001703
90-001707
90-001719
90-001726
90-001741
90-001743
90-001748
90-001751
90-002290
90-002346
90-003200
90-003201
90-003202
90-003219
90-003234
90-003238
90-003260
90-003628
90-003666
90-003981
90-003985
90-004085
90-004086
90-005121
90-005134
90-005135
90-005140
90-005146
90-005164
Otoconia
90-001716
Otoliths
90-000457
90-000660

...CONTINUED...
Morphology
Otoliths
90-000668
90-000670
90-001673
90-001688
90-001750
90-002296
90-002298
90-003230
90-003467
90-003985
90-003992
90-003995
90-005792
90-005798
90-005811
90-005815
90-005825
Pancreas
90-003292
90-005348
Pars Distalis
90-000212
Pharyngeal Teeth
90-000644
90-002049
90-005149
90-005150
Pharynx
90-003236
Photoreception
90-000167
90-000176
90-003435
Pigments
90-001646
90-001658
90-001683
90-001704
90-003212
90-003220
90-003244
90-003262
90-003271
90-003407
90-004918
Pineal Body
90-000178
Pituitary Gland
90-001838
Population Studies
90-003230
Rectal Gland
90-006167
Reproduction
90-000239
90-001733
90-002196
90-002215
Reproductive System
90-000175
90-000188
90-000202
90-000205
90-000297
90-000788
90-001676
90-001705
90-001706
90-001884

...CONTINUED...
Morphology
Reproductive System
90-003206
90-003209
90-003231
90-003240
90-003253
90-003254
90-003261
90-003869
90-003871
90-003884
90-005166
Respiratory System
90-001650
90-001664
90-001717
90-001718
90-001744
90-001848
90-005130
90-005172
Reticulo-Endothelial System
90-001724
Scales
90-000203
90-001646
90-001710
90-001712
90-002286
90-002297
90-003218
90-003263
90-003617
90-003831
90-003985
90-003988
90-003992
90-004005
90-004007
90-004009
90-005131
90-005142
90-005162
90-005173
Seismosensory System
90-001739
90-005138
Sense Organs
90-001692
90-001693
90-003269
Sex Determination
90-002328
90-002975
Sexual Dimorphism
90-000478
90-001674
90-001684
90-001743
90-002072
90-002093
90-003248
90-003649
90-005143
90-005157
90-005170
90-005893
Sound Production
90-003730
Species Identification
90-005147

...CONTINUED...
Morphology
Sperm
90-001676
90-001677
90-003203
90-003254
90-003261
90-006756
Spines
90-001751
90-003992
90-005257
90-005824
Spleen
90-001724
90-005317
90-005414
Starvation
90-005155
Stock Identification
90-005471
Stunting
90-000669
Suckers
90-005126
90-005129
Swimbladder
90-000211
90-001069
90-001650
90-001678
90-002000
90-003505
Swimming Performance
90-000194
90-001642
90-001654
90-001664
90-001679
90-001707
90-003247
Taxonomy
90-000166
90-001660
90-001672
90-001742
Techniques/Condition Factors
90-001021
Techniques/Gills
90-003221
Techniques/Maturation
90-002975
Techniques/Microscopy
90-003230
90-004382
90-006006
Techniques/Tissue Staining
90-001657
90-003220
Techniques/X-rays
90-001681
Teeth
90-001680
90-001698
90-001730
90-005350
Tongue
90-000199
90-001730
Triploid Fish
90-000452

...CONTINUED...
Morphology
Triploid Fish
90-000453
Variation Studies
90-000165
90-000185
90-000189
90-000197
90-000202
90-000437
90-000451
90-000455
90-000457
90-000459
90-000469
90-001660
90-001667
90-001673
90-001687
90-001693
90-001705
90-001715
90-001716
90-001719
90-001731
90-001743
90-001745
90-001751
90-002039
90-002046
90-002067
90-002070
90-003200
90-003212
90-003222
90-003230
90-003240
90-003256
90-003258
90-003617
90-003662
90-003671
90-003678
90-003685
90-004637
90-005121
90-005122
90-005125
90-005134
90-005138
90-005141
90-005142
90-005143
90-005149
90-005152
90-005170
90-005427
90-005471
90-005488
90-005664
90-005695
Vertebral Counts
90-000204
90-001679
90-005887
Vision
90-000167
90-000176
90-000193
90-001683
90-001696

...CONTINUED...
Morphology
Vision
90-003251
90-003389
90-003435
Zoogeography
90-001666
90-001688
90-003617
90-005152
Natural History
Abundance/Factors of
90-000540
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Age/Growth
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90-002295

...CONTINUED...
Natural History
Age/Growth
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90-005809
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90-005817
90-005818
90-005819

...CONTINUED...
Natural History
Age/Growth
90-005822
90-005823
90-005912
90-006149
90-006370
90-006534
90-006569
90-006653
Age/Length Composition
90-002164
Bioenergetics
90-003600
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Bird Predation
90-000511
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90-003977
90-004048
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90-005859
Colonization
90-005656
90-006093
90-006688
Competition
90-004502
90-004512
Condition Factors
90-003986
90-005704
90-005793
Density
90-004769
90-006254
Distribution/Factors of
90-000618
90-001452
90-002307
90-002315
90-002321
90-002840
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90-003923
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90-005736
90-005841

...CONTINUED...
Natural History
Distribution/Factors of
90-005862
90-005870
90-005871
90-005873
90-006093
90-006314
90-006324
90-006565
90-006569
90-006596
Distribution/Geographical
90-000681
90-000691
90-002133
90-002303
90-003801
90-003906
90-004034
90-004043
90-006580
Distribution/Seasonal
90-000610
90-002181
90-002221
90-002222
90-002228
90-002891
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90-003901
90-003906
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90-003916
90-003919
90-003923
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90-005638
90-005672
90-005732
90-005735
90-005738
90-005741
Distribution/Vertical
90-000614
90-002133
90-002181
90-002792
90-003811
90-003901
90-003905
90-003917
90-003941
90-003986
90-003990
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90-005545
90-005733
90-005737
90-005755
90-006667
Dwarfism
90-003711
Early Development
90-000546
90-000579
90-002145
90-002294

...CONTINUED...
Natural History
Early Development
90-002792
90-002795
90-003294
90-003668
90-003798
90-003815
90-003816
90-003817
90-003820
90-003827
90-003839
90-003843
90-003870
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90-003979
90-003986
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90-005622
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90-005785
90-005797
90-005804
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90-005863
90-006106
90-006237
Egg Drift
90-002218
90-003885
90-003905
90-003906
90-003910
90-003912
90-003917
90-004703
Egg Size
90-002210
90-003870
90-005225
90-005704
90-005804
Egg Survival
90-000425
90-000546
90-000579
90-000580
90-000699
90-001757
90-002197
90-002199
90-002206

...CONTINUED...
Natural History
Egg Survival
90-002218
90-002332
90-002693
90-002792
90-003322
90-003851
90-003885
90-003895
90-004056
90-004653
90-004671
90-005685
90-005714
90-005716
Eggs
90-003798
90-005696
Embryology
90-002294
90-003816
Escapement
90-000572
90-003028
90-006394
Evolution
90-000561
90-001700
90-002076
90-002258
90-003666
90-003694
90-003838
90-004603
90-005482
90-005592
90-005599
90-005609
90-005632
90-005634
90-006724
Extinction
90-002991
90-004502
90-004603
90-006784
Fecundity
90-000580
90-000603
90-002177
90-002189
90-002195
90-002197
90-002198
90-002207
90-002210
90-002211
90-002287
90-002809
90-003232
90-003840
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90-003872
90-003873
90-003875
90-003885
90-003890
90-003894
90-003928
90-005225

...CONTINUED...
Natural History
Fecundity
90-005467
90-005620
90-005698
90-005703
90-005704
90-005705
90-005743
Food Supply
90-000662
90-002202
90-002840
90-002844
90-003807
90-003961
90-003979
90-004054
Foods/Feeding
90-000610
90-001568
90-001941
90-002245
90-002250
90-002253
90-002258
90-003223
90-003294
90-003546
90-003600
90-003809
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90-003928
90-003932
90-003937
90-003941
90-003944
90-003946
90-003949
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90-003965
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90-003972
90-003973
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90-005753
90-005754
90-005756
90-005759
90-005763
90-005765
90-005766
90-005768
90-005771
90-005774

...CONTINUED...
Natural History
Foods/Feeding
90-005777
90-005781
90-005783
90-005785
90-005786
90-005788
90-005789
90-005791
90-005823
90-006653
90-006787
General
90-000959
90-002155
90-005605
90-006479
Habitat Selection
90-001589
90-003876
90-003915
90-004638
90-004820
90-005841
Hatchery/Wild Populations
90-005819
Hatching
90-000990
90-001932
90-002332
90-003307
90-004671
90-005648
90-005674
Ichthyoplankton
90-001361
90-002168
90-002219
90-002231
90-002303
90-002824
90-004697
90-005653
90-005702
90-005869
90-006667
Insect Predation
90-004058
Interspecies Relationships
90-005781
Invertebrate Predation
90-002162
90-003783
Landlocked Populations
90-000197
90-000462
90-003222
90-003916
90-004632
90-005608
90-005609
90-005610
90-005649
90-006670
Larvae
90-000785
Larval Behavior
90-000614
90-003972
90-005783

...CONTINUED...
Natural History
Larval Drift
90-000513
90-000614
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90-002188
90-002218
90-002219
90-002226
90-002231
90-002792
90-003809
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90-004697
90-004703
90-005622
90-005731
90-005732
90-005734
90-005736
90-005737
90-005866
90-005869
90-006667
Length-Weight Relationships
90-000572
90-002295
90-002297
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90-002734
90-003809
90-003860
90-003867
90-003922
90-003982
90-004489
90-005793
90-006654
Life History/General
90-000546
90-000561
90-001087
90-001410
90-001757
90-001881
90-002076
90-002145
90-002155
90-003322
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90-005632
90-006677

...CONTINUED...
Natural History
Mammal Predation
90-000581
90-000647
90-002330
90-002333
90-002934
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90-004048
90-004754
90-004863
90-005868
Maturation
90-000580
90-000588
90-000658
90-001087
90-002140
90-002177
90-002180
90-002197
90-002198
90-002202
90-002207
90-002211
90-002228
90-002285
90-002287
90-002293
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90-005697
90-005698
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90-005715
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Migration
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90-002441
90-003839
90-003847
90-003864
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90-003888
90-003904
90-003909
90-003913
90-003919
90-003922
90-004494
90-005198

...CONTINUED...
Natural History
Migration
90-005503
90-005643
90-005743
90-005860
90-006665
Mortality Factors
90-000700
90-002242
90-002327
90-002330
90-002863
90-004049
90-004054
90-004061
90-005861
90-005865
90-006370
Mortality Rates
90-000546
90-000586
90-000660
90-000699
90-000701
90-002199
90-002863
90-003815
90-003827
90-003854
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90-003969
90-003999
90-004051
90-004053
90-004054
90-004055
90-004056
90-004060
90-005865
90-005866
90-006093
Movements
90-003904
90-005733
Nests/Nesting
90-000985
90-002332
90-002693
90-003874
90-003895
90-004648
Nursery Areas
90-001361
90-002155
90-002218
90-002231
90-002824
90-003906
90-004006
90-004638
90-004698
90-006670
90-006677
Nutrition
90-003986
Orientation/Homing
90-006394
Otoliths
90-002294
Overwintering
90-000379

...CONTINUED...
Natural History
Overwintering
90-000700
90-001370
90-002001
90-002230
90-002234
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90-004055
90-004698
90-005266
90-005276
90-005376
90-006197
Paleontology
90-002321
90-004679
90-006784
Parental Behavior
90-005727
Parr-Smolt Transformation
90-000569
90-001087
90-003847
90-004559
Photoperiodism
90-003811
Population Studies
90-000540
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90-002158
90-002171
90-002187
90-003860
90-003864
90-003909
90-005656
90-005659
90-005660
90-005666
90-005679
Predator/Prey Relationships
90-000552
90-000627
90-000647
90-001700
90-002120
90-002250
90-002276
90-002281
90-002793
90-002795
90-002863
90-003838
90-003857
90-003957
90-003958
90-003969
90-004048
90-004049
90-004054
90-004055
90-005170
Reconditioning
90-002157
Recruitment
90-001757
90-001861

...CONTINUED...
Natural History
Recruitment
90-001894
90-001912
90-001970
90-002028
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90-002156
90-002158
90-002162
90-002171
90-002172
90-002188
90-002189
90-002557
90-002809
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90-006670
Reef Fish Communities
90-001410
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90-005746
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90-005873
Repopulation
90-002876
90-003863
90-006610
90-006614
90-006637
Reproduction
90-000600
90-001673
90-002056
90-002171
90-002189
90-002194
90-002195
90-002200
90-002207
90-002211
90-002701
90-002809

...CONTINUED...
Natural History
Reproduction
90-003307
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90-005699
90-005700
90-005703
90-005709
90-005710
90-005723
90-005728
90-006569
Reproductive Cycle
90-003890
90-003893
90-003896
90-005727
Reptile Predation
90-003942
Sex Ratios
90-002178
90-002190
90-002212
90-003445
90-005793
Sex Reversal
90-003889
90-003892
90-005600
Sexual Precocity
90-005776
Spawning
90-000414
90-000598
90-000606
90-000985
90-002028
90-002157
90-002177
90-002178
90-002180
90-002181
90-002185
90-002199

...CONTINUED...
Natural History
Spawning
90-002206
90-002208
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90-002213
90-003232
90-003825
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90-003872
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90-003876
90-003877
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90-005697
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90-005708
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90-005720
90-005732
90-005743
90-006766
Speciation
90-005596
90-005632
90-005634
90-005664
Starvation
90-000379
90-002170
90-002795
Stock Assessment
90-000691
90-003860
Stunting
90-000669
90-001214
90-002288
90-004006
90-005561
90-005791
Survival
90-000294
90-000540
90-000572
90-000577
90-000579
90-000700
90-000785
90-000990
90-001238
90-002157
90-002170
90-002188
90-002242
90-002622
90-002792

...CONTINUED...
Natural History
Survival
90-002795
90-003028
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90-003668
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90-003849
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90-004494
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90-005685
90-005771
90-005785
90-005860
90-005861
90-005863
90-006149
90-006237
90-006380
90-006394
Taxonomy
90-000691
90-001441
90-003817
Trophic Relationships
90-001564
90-002258
90-002793
90-003453
90-003941
90-003959
90-005755
90-005770
Variation Studies
90-001087
90-002056
90-002058
90-002145
90-002262
90-003711
90-003792
90-003803
90-003838
90-003839
90-003870
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90-005628
90-005634
90-005643
90-005664
90-005688
90-005694
90-005695

...CONTINUED...
Natural History
Variation Studies
90-005723
90-005743
90-006677
Year Class Strength
90-003849
90-003851
90-005702
90-005864
Zoogeography
90-000691
90-000693
90-002222
90-002315
90-002671
90-003666
90-003838
90-005482
90-005600
90-005602
90-005870
90-006276
90-006724
Oceanography
Acoustical Methods
90-003193
90-003198
90-004855
90-004859
Benthos
90-001640
90-002096
Computer Applications
90-002785
Currents
90-000965
90-001371
90-002317
90-002926
90-002944
90-002948
90-002955
90-003919
90-004742
90-005104
90-005108
90-005688
90-005869
90-006699
90-006702
El Nino
90-003178
Eutrophication
90-003183
90-003950
90-004233
90-004260
90-004295
90-005109
Hydrology
90-000154
90-001635
Hypoxia
90-004233
90-004260
90-004295
90-006314
Islands
90-004742
Modeling
90-002816
...CONTINUED...
Oceanography
Natural Gas Vents
90-000149
Nutrient Cycling
90-005109
Nutrients
90-002921
Oxygen
90-006314
Phytoplankton
90-002785
90-002787
90-003191
90-005118
Plankton
90-000155
Primary Production
90-000153
90-001635
90-002946
90-003183
90-005120
Red Tides
90-005118
Salinity
90-000148
90-003191
90-003923
90-004057
90-004703
Satellite Imagery
90-002984
90-003853
90-003914
90-004804
Seamounts
90-001634
90-003935
Secondary Production
90-002926
Stratification
90-001398
Techniques/Zooplankton
90-003198
Temperature
90-000148
90-000618
90-003180
90-003191
90-003853
90-003901
90-003923
90-004052
90-004057
90-004703
90-005108
90-005862
90-006314
Thermocline
90-003749
90-005108
Tides
90-001636
90-005736
Trophic Relationships
90-000155
90-002921
90-003191
90-003961
90-004762
Upwelling
90-000578

...CONTINUED...
Oceanography
Upwelling
90-000584
90-001379
90-002208
90-005688
Waves
90-002696
90-002955
Zooplankton
90-000154
90-003193
90-003198
90-003961
Parasites/Diseases
Abnormalities
90-004192
Acanthocephala
90-000795
90-002456
90-004185
90-004207
90-004223
90-005899
Acanthocephalus
90-000769
90-000794
90-003824
Acanthocephalus anguillae
90-004185
Acanthocotyle lobianchi
90-006043
Achlya recurva
90-005951
Aeromonas
90-000746
90-000756
Aeromonas cavial
90-000754
Aeromonas hydrophila
90-000723
90-000754
90-004088
90-004106
90-004126
90-004128
90-004131
90-005928
Aeromonas salmonicida
90-000743
90-000752
90-000753
90-001534
90-001849
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90-002396
90-002401
90-003399
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90-004134
90-005318
90-005919
90-005923
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90-005940
90-005943

...CONTINUED...
Parasites/Diseases
Aeromonas salmonicida
90-005946
Aeromonas sobria
90-000751
90-000754
90-002403
90-005928
Aflatoxins
90-000883
Anemia
90-001569
90-004173
90-006013
Anguillicola
90-004205
Anguillicola crassus
90-000781
90-000785
90-002441
90-002443
90-002445
90-004189
90-004190
90-004202
90-005999
90-006000
Anisakis
90-006018
90-006020
Anisakis simplex
90-006007
Annulotrema
90-006005
Anthelminthics
90-002443
Antibiotics
90-000752
90-005930
90-006133
Antibodies
90-000339
90-000761
90-000773
90-000775
90-000800
90-004172
90-005283
90-005931
90-005946
90-005955
90-005985
90-006048
Antigens
90-002429
90-003027
90-004105
90-004134
90-005921
Antiviral Agents
90-000730
90-005986
Apiosoma piscicola
90-004143
Aquariums
90-001622
Argulus canadensis
90-006034
Argulus foliaceus
90-006028
Argulus indicus
90-005912

...CONTINUED...
Parasites/Diseases
Arteriosclerosis
90-004210
Ascorbic Acid
90-003568
Bacterial Diseases
90-000036
90-000740
90-000741
90-000742
90-000743
90-000744
90-000745
90-000746
90-000747
90-000748
90-000749
90-000750
90-000751
90-000752
90-000753
90-000754
90-000755
90-000756
90-001534
90-001849
90-002366
90-002371
90-002372
90-002373
90-002374
90-002375
90-002376
90-002377
90-002379
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90-002396
90-002397
90-002398
90-002399
90-002400
90-002401
90-002402
90-002403
90-002404
90-002408
90-003399
90-003568
90-003644
90-004091
90-004102
90-004103
90-004104
90-004105
90-004106
90-004107
90-004108

...CONTINUED...
Parasites/Diseases
Bacterial Diseases
90-004109
90-004110
90-004111
90-004112
90-004113
90-004115
90-004116
90-004117
90-004118
90-004119
90-004120
90-004121
90-004122
90-004123
90-004124
90-004125
90-004126
90-004127
90-004128
90-004129
90-004130
90-004131
90-004132
90-004133
90-004134
90-004135
90-004136
90-004137
90-004348
90-005283
90-005318
90-005907
90-005914
90-005915
90-005916
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90-005918
90-005919
90-005920
90-005921
90-005922
90-005923
90-005924
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90-005934
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90-005939
90-005940
90-005941
90-005942
90-005943
90-005944
90-005945
90-005946
90-005947
90-005948
90-005949
Bacterial Gill Disease
90-003644

...CONTINUED...
Parasites/Diseases
Bacterial Gill Disease
90-004107
90-005938
90-005941
Bacterial Kidney Disease
90-002387
90-002397
90-005917
90-005926
Bactericides
90-002378
90-002386
90-002403
90-003413
90-004111
90-004114
90-004115
90-004118
90-004120
90-004133
90-005935
Bacteriophages
90-000730
Benedeniella posterocolpa
90-006044
Betadine
90-004916
Birnavirus
90-002429
Black-Spot Disease
90-005918
Blue-sac Disease
90-004132
Bothriocephalus
90-006038
Bothriocephalus acheilognathi
90-000779
90-002446
Bothriocephalus gowkongensis
90-004220
Branchiomycosis
90-000757
Branchiura
90-004184
Caligus elongatus
90-005995
Caligus pelamydis
90-004209
Calliobothrium pritchardae
90-004194
Calliphora
90-004191
Calydiscoides nemipteris
90-002458
Camallanus
90-006018
Camallanus cotti
90-005551
Carbaryl
90-005994
Carcinogens
90-004356
90-004372
90-004389
90-004392
90-006179
Cell Culture
90-000745
90-002379
90-002380

...CONTINUED...
Parasites/Diseases
Cell Culture
90-002384
90-002400
90-004104
90-004112
90-004167
90-004313
90-005903
90-006007
Ceratomyxa shasta
90-000760
90-000761
90-002411
90-002414
90-005955
Cestodes
90-000779
90-000800
90-000801
90-002446
90-002453
90-002455
90-004187
90-004194
90-004195
90-004200
90-004203
90-004213
90-004220
90-004496
90-005997
90-006002
90-006037
90-006038
Channel Catfish Reovirus
90-002425
90-002427
Chilodonella cyprini
90-004143
Chloromyxum cyprini
90-004144
Cichlidogyrus halli
90-004198
Cichlidogyrus sclerosus
90-006040
Ciguatera
90-002448
Clavellisa scombri
90-004209
Clinostomum giganticum
90-004221
Clinostomum marginatum
90-004212
90-006022
Coccidia
90-000767
90-004149
90-004157
Coccomyxa
90-005958
Colobomatus icopaius
90-002459
Columnaris Disease
90-004108
Contracaecum
90-006042
Copper Sulfate
90-000726
90-006044
Coronary Lesions
90-001964

...CONTINUED...
Parasites/Diseases
Coronary Lesions
90-002440
Costia
90-002408
Cryptobia cataractae
90-005966
Cryptobia salmositica
90-004164
Cryptocaryon irritans
90-003135
Cucullanus elongatus
90-006046
Culture/Propagation
90-000026
90-000723
90-000727
90-000731
90-000733
90-000735
90-000740
90-000742
90-000746
90-000748
90-000749
90-000756
90-000757
90-000763
90-000765
90-000779
90-000780
90-000789
90-000802
90-000883
90-001569
90-002366
90-002367
90-002376
90-002382
90-002389
90-002390
90-002401
90-002432
90-003008
90-003012
90-004088
90-004092
90-004094
90-004097
90-004102
90-004108
90-004109
90-004125
90-004132
90-004136
90-004137
90-004141
90-004143
90-004144
90-004146
90-004148
90-004150
90-004159
90-004165
90-004171
90-004173
90-004177
90-004181
90-004190
90-004193
90-004201

...CONTINUED...
Parasites/Diseases
Culture/Propagation
90-004207
90-004220
90-004943
90-004967
90-005098
90-005909
90-005911
90-005914
90-005927
90-005929
90-005935
90-005936
90-005944
90-005947
90-005954
90-005971
90-005982
90-005983
90-005989
90-005995
90-006013
90-006019
90-006028
90-006124
Cytophaga
90-004132
90-004136
90-004137
Dactylogyrus
90-000723
90-002454
90-004088
Dactylogyrus amphibothrium
90-004226
Dactylogyrus chranilowi
90-006051
Dactylogyrus extensus
90-000790
Dactylogyrus vastator
90-000780
90-000789
90-000790
90-000802
Dermocystidium
90-002405
Dermocystidium anguillae
90-006031
Derogenes capricorniensis
90-002436
Diagnostic Techniques
90-000740
90-000753
90-000760
90-000790
90-001592
90-002368
90-002379
90-002380
90-002382
90-002404
90-002416
90-002417
90-002427
90-002429
90-002446
90-002450
90-004095
90-004098
90-004164

...CONTINUED...
Parasites/Diseases
Diagnostic Techniques
90-004167
90-004176
90-004202
90-005284
90-005919
90-005920
90-005928
90-005978
90-005979
90-006006
90-006020
Diclidophora merlangi
90-004214
Diphyllobothrium dendriticum
90-000800
Diphyllobothrium ditremum
90-000800
Diplostomum
90-006042
Diplostomum spathaceum
90-000803
90-002444
90-006010
90-006021
90-006048
90-006049
Diplozoon nipponicum
90-004219
Discocotyle sagittata
90-004226
Disease Control
90-000740
90-002444
Disease Importation
90-000781
90-002444
90-005848
90-005923
90-006028
Disease Susceptibility
90-002402
90-002414
90-002502
90-003568
90-003644
90-004093
90-004174
90-004180
90-005441
90-005909
90-005991
Disease-Free Culture
90-000722
90-000726
90-000736
90-000802
90-001482
90-001507
90-001510
90-001622
90-002371
90-002378
90-002383
90-002391
90-002399
90-004168
90-005091
90-005095
90-005981

...CONTINUED...
Parasites/Diseases
Disinfection
90-001622
90-005095
90-005981
Dolops ranarum
90-004184
Drug Clearance
90-000736
90-000737
90-004138
90-005897
Echinorhynchus gadi
90-005899
Economics
90-002390
Ectoparasites
90-000799
90-004163
90-004184
90-004209
90-004218
90-006034
Edwardsiella
90-005283
Edwardsiella ictaluri
90-000036
90-000742
90-002382
90-002392
90-002403
90-004105
90-005916
90-005920
90-005923
Edwardsiella tarda
90-000755
90-002371
90-002377
90-002384
90-002388
90-004131
90-005923
90-005930
EIBS
90-002431
Eimeria
90-000723
90-000766
90-004088
Eimeria aculeati
90-004149
Eimeria anguillae
90-000764
Eimeria esoci
90-000764
Eimeria subepithelialis
90-005973
Eimeria zarnowskii
90-004149
Encotyllabe caballeroi
90-002460
Encotyllabe caranx
90-002460
Encotyllabe chironemi
90-002460
Enteric Septicemia
90-000036
90-000742
90-004105
90-005930

...CONTINUED...
Parasites/Diseases
Enterobacter agglomerans
90-002381
Enterogyrus cichlidarum
90-006014
Enterogyrus melenensis
90-000782
Epidermal Lesions
90-000784
90-003410
90-004206
90-005918
90-006019
Epizootic Epitheliotropic Disease
90-002426
Ergasilus
90-004089
90-004199
Ergasilus labracis
90-000791
Ergasilus sieboldi
90-004096
Erythrocytic Necrosis Virus
90-005980
Erythrodermatitis
90-005945
Erythromycin
90-002395
90-004118
90-004916
Escherichia coli
90-004127
Euclinostomum heterostomum
90-004221
Fairfaxia lethrini
90-002438
Fin Erosion
90-004225
90-006164
Fish Kills
90-004306
Flavobacterium
90-004131
Flavobacterium branchiophila
90-004107
90-004112
Flexibacter columnaris
90-004108
90-005936
Flexibacter maritimus
90-005918
Flumequine
90-001510
90-004133
Formalin
90-000726
90-004146
90-005091
Fumagillin DCH
90-005974
90-005976
Fungal Diseases
90-000757
90-002199
90-002405
90-004099
90-004138
90-004139
90-004140
90-004141

...CONTINUED...
Parasites/Diseases
Fungal Diseases
90-005906
90-005912
90-005950
90-005951
90-005952
Fungicides
90-004138
Furunculosis
90-004113
90-004129
90-005318
Gaff Disease
90-000793
General
90-000026
90-000739
90-002365
90-002369
90-002370
90-002906
90-003003
90-005898
90-005900
90-005902
90-005905
90-005911
90-005913
General/Australia: Great Barrier Reef
90-002415
General/California
90-004101
General/Nigeria
90-000734
90-000735
General/Peru
90-005901
General/Poland
90-001310
90-004100
General/USSR
90-000725
90-000728
90-000738
General/USSR: Northwestern Region
90-000732
Gill Diseases
90-000727
90-000770
90-002424
90-004231
90-005953
Gill Necrosis
90-006172
Gill Parasites
90-000753
90-000792
90-000796
90-002400
90-004099
90-004198
90-004226
90-005942
90-005962
90-006040
90-006045
90-006050
Gilquinia
90-004187

...CONTINUED...
Parasites/Diseases
Goussia auxidis
90-004116
Goussia carpelli
90-002423
Goussia gasterostei
90-004149
Goussia janae
90-005968
Goussia subepithelialis
90-005972
Goussia zarnowskii
90-002412
Granulomatosis
90-005942
Green Liver
90-006004
Grillotia heroniensis
90-002455
Grillotia overstreeti
90-002455
Grubea cochlear
90-004230
Gyrodactylus colemanensis
90-006047
Gyrodactylus salaris
90-005991
Gyrodactylus salmonis
90-006047
Gyrodinium aureolum
90-006234
Haematractidium scombri
90-002417
Hargicotyle
90-000796
Helicometra
90-002452
Helicometra nimia
90-006011
Heliconema
90-006008
Heliconema kherai
90-006008
Helminths
90-004089
90-004096
90-004211
90-004213
90-006001
90-006015
90-006032
90-006042
90-006046
Hematomas
90-004183
Henneguya
90-004152
90-005969
Hepatic Lesions
90-004356
Hepatic Neoplasms
90-004186
90-004344
90-004372
90-004389
90-004392
90-006179
Herpesvirus
90-000771
90-002426
90-002427

...CONTINUED...
Parasites/Diseases
Herpesvirus ictaluri
90-002425
Heterobothrium elongatum
90-006050
Heterosporis finki
90-002418
Hexamita salmonis
90-005970
Hoferellus carassii
90-002419
90-005975
90-005976
Horseradish Peroxidase
90-003027
Hysterothylacium
90-000783
Ichthyobodo
90-000723
90-002408
90-004088
Ichthyobodo necator
90-004163
Ichthyophonus
90-000757
90-002199
90-005952
Ichthyophonus hoferi
90-004099
90-005950
Ichthyophthirius multifiliis
90-000723
90-002410
90-004088
90-004143
90-004146
90-004151
90-004154
90-005441
90-005957
90-005965
90-005971
Immune Response
90-000370
90-000744
90-000755
90-000799
90-000800
90-001849
90-002398
90-002402
90-002417
90-003366
90-003399
90-004091
90-004092
90-004105
90-004110
90-004113
90-004128
90-004131
90-004172
90-005932
90-005955
90-005961
90-005965
90-005973
90-006010
90-006049
Immunization
90-000729

...CONTINUED...
Parasites/Diseases
Immunization
90-000803
90-004091
90-004168
90-004170
90-004172
90-005909
90-005932
90-005948
90-005957
90-006048
Infectious Hematopoietic Necrosis
90-000775
90-002428
90-004166
90-004167
90-004170
90-004174
90-004175
90-004176
90-004177
90-004181
90-005977
90-005984
90-005987
90-005989
Infectious Pancreatic Necrosis
90-000741
90-004091
90-004168
90-004169
90-004181
90-004182
90-005978
90-005979
90-005985
90-005988
Injuries
90-004049
Intestinal Lesions
90-002393
90-004122
Iridoviridae
90-000776
90-002431
90-004165
Kidney Disease
90-003012
90-004196
Kidney Enlargement Disease
90-002419
Kudoa
90-005967
Kudoa rosenbuschi
90-004158
Kuhnia scombri
90-004209
90-004230
Kuhnia sprostonae
90-004230
Lamprey Parasitism
90-001020
90-005654
Lamproglena
90-006016
Lateral Line Erosion
90-002435
Leeches
90-002437

...CONTINUED...
Parasites/Diseases
Lepeophtheirus salmonis
90-005994
90-005995
90-006012
90-006026
Lernaea
90-004197
Lernaea cyprinacea
90-000786
90-002367
90-002724
Lernaea elegans
90-004201
Lernaea polymorpha
90-000799
Lesions
90-005907
Leukemia
90-005963
90-006013
Ligula intestinalis
90-000801
90-004203
Lobatostoma anisotremum
90-000797
Lobatostoma pacificum
90-000797
Lobatostoma veranoi
90-000797
Lutianicola indica
90-006024
Lutianicola vittae
90-006024
Lymphocystis
90-002433
90-002449
90-004251
90-005937
Malachite Green
90-000726
90-004146
90-005091
90-005098
90-005906
Maricostula
90-000783
Mebendazole
90-004193
Medication In Diets
90-001510
90-002395
90-003027
90-004114
Merizocotyle icopae
90-002434
Metamicrocotyla macracantha
90-005998
Micrococcus varians
90-004126
Microsporidia
90-005937
Monocotyle helicophallus
90-006027
Monocotyle multiparous
90-006027
Monocotyle spiremae
90-006027
Muscle Necrosis
90-003216
Mycobacterium
90-002386

...CONTINUED...
Parasites/Diseases
Mycobacterium
90-004118
Mycobacterium chelonei
90-004130
Mycobacterium fortuitum
90-005924
Mycobacterium marinum
90-004124
Mycobacterium neoaurum
90-005915
Mycobacterium parafortuitum
90-004130
Mycobacterium vaccae
90-004130
Mycoplasma
90-004139
Mycoplasma mobile
90-002400
90-004123
Myxidium giardi
90-000723
90-004088
Myxidium rhodei
90-000759
Myxobolus
90-000758
90-002406
90-002422
90-005954
90-005969
Myxobolus arcticus
90-000724
Myxobolus cerebralis
90-005964
Myxobolus corneus
90-005959
Myxobolus cyprini
90-004144
Myxobolus encephalicus
90-004144
Myxobolus gadopsii
90-005967
Myxobolus galaxii
90-005967
Myxobolus haldari
90-005962
Myxobolus ovariae
90-000768
Myxobolus pavloskii
90-000762
Myxobolus pfeifferi
90-002367
Myxobolus spinacurvatura
90-004153
Myxosoma
90-002422
Myxosoma cerebralis
90-002407
90-002416
Myxosporidea
90-000760
90-002420
90-004089
90-004096
Nanophyetus salmincola
90-000724
Nematobothrium atlanticus
90-002447
Nematodes
90-000781

...CONTINUED...
Parasites/Diseases
Nematodes
90-000783
90-000785
90-000787
90-000798
90-002441
90-002443
90-002445
90-004189
90-004190
90-004202
90-004205
90-005551
90-005990
90-005999
90-006000
90-006007
90-006008
90-006017
90-006018
90-006020
90-006030
90-006033
90-006037
Neoechinorhynchus rutili
90-002457
Neoplasms
90-002442
90-004179
90-004204
90-004344
90-004351
90-006009
90-006019
90-006025
Nocardia asteroides
90-002376
Nutritional Diseases
90-000120
90-000727
90-001569
90-002392
90-003108
90-003327
90-004092
90-004943
Oncorhynchus Masou Virus
90-005986
Opisthorchis
90-005996
Ormethoprim
90-002371
90-002378
90-003068
90-003439
Ortholinea alata
90-002413
Oxolinic Acid
90-002371
90-003413
90-004111
90-004114
90-004115
90-005933
Oxytetracycline
90-001482
90-001507
90-003008
90-004090
90-004111

...CONTINUED...
Parasites/Diseases
Oxytetracycline
90-004125
90-005904
Ozone
90-001622
Papillomas
90-004251
Paramoeba
90-000770
Parasitic Copepods
90-000786
90-000791
90-002367
90-002459
90-004197
90-004199
90-004201
90-004209
90-004218
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Parasitic Insects
90-004191
Parasitic Molluscs
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Paratenuisentis ambiguus
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Parental Transfer
90-002372
90-002387
Pasteurella piscicida
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Pearsonellum corventum
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Phyllobothrium hallericola
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Pirupalkia queulensis
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Piscinoodinium pillulare
90-004159
Pituitary Cysts
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Plagioporus
90-000723
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Pleistophora senegalensis
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Pollution
90-006172
Pomphorhynchus bulbocolli
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Pomphorhynchus laevis
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90-004185
Potassium Permanganate
90-000036

...CONTINUED...
Parasites/Diseases
Potassium Permanganate
90-000726
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Procamallanus annipetterae
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Proliferative Gill Disease
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Proliferative Kidney Disease
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90-004156
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Proteocephalus ambloplites
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Proteocephalus neglectus
90-004200
Protozoan Diseases
90-000723
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90-004157
90-004158

...CONTINUED...
Parasites/Diseases
Protozoan Diseases
90-004159
90-004160
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90-004163
90-004164
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Pseudodactylogyrus anguillae
90-004193
Pseudodactylogyrus bini
90-004193
Pseudodelphis oligocotti
90-005990
Pseudohaliotrema paralonchuri
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Pseudomonas
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90-004106
Pseudomonas fluorescens
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90-004131
90-005923
90-005986
Pseudomonas putrefaciens
90-005944
Pseudoterranova decipiens
90-000787
Pseudotuberculosis
90-002399
90-004133
Public Health Problems
90-002384
90-004119
Quinoline
90-000752
Quinolone
90-005933
Raphidascaris chirocentri
90-006018
Red Sore Disease
90-000784

...CONTINUED...
Parasites/Diseases
Renibacterium salmoninarum
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Rhabdochona cubensis
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Rhabdovirus
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90-002428
90-005981
Rhabdovirus anguilla
90-000774
Rhabdovirus carpio
90-000777
90-000778
Rhadinorhynchus chongmingnensis
90-004207
Rhipidocotyle lepisostei
90-004228
Rhodococcus
90-005915
Richardsonobdella lineatae
90-002437
Rotavirus
90-002430
Salinity
90-004099
90-004129
90-005951
90-005971
Salmincola edwardsii
90-004218
Saprolegnia
90-000757
90-005912
90-005951
Scarring
90-004049
Sekoke Disease
90-004208
Senga lucknowensis
90-006002
Senga pathankotensis
90-006002
Septemcapsula
90-005958
Serratia liquefaciens
90-004121
Sodium Chlorite
90-003135
Sphaerospora
90-004155
90-004156
Sphaerospora ictaluri
90-004148
Sphaerospora molnari
90-004144
Sphaerospora renicola
90-004144
Sphaerospora testicularis
90-004160
Sphaerostoma maius
90-005992

...CONTINUED...
Parasites/Diseases
Spiniloculus mavensis
90-004195
Spirocamallanus cervicalatus
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Spirocamallanus paraguayensis
90-006033
Spironucleus torosa
90-005970
Sterrhurus musculus
90-004215
Streptococcus
90-002373
90-002398
90-004103
90-004109
90-004117
90-005914
Streptomycin
90-004118
Stress
90-001812
Sulfadimethoxine
90-005935
Sulphadiazine
90-004111
Sulphadimidine
90-003068
Sulphamonometoxin
90-002371
Swimbladder Disease
90-000758
Swimbladder Ectasia
90-002406
Tagging Lesions
90-006370
Temperature
90-002364
90-004096
Tetraonchus awakurai
90-000724
90-004099
Tetraonchus monenteron
90-000792
Tetraonchus oncorhynchi
90-004099
Thaumatocotyle australensis
90-002434
Thelohanellus hovarkai
90-004144
Thelohanellus nikolskii
90-004144
Thynnascaris shyamasundarii
90-006017
Toxic Gill Necrosis
90-004231
90-004368
Tracheliastes maculatus
90-005993
Treatment
90-000036
90-000722
90-000726
90-000730
90-000736
90-000737
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90-001507

...CONTINUED...
Parasites/Diseases
Treatment
90-002366
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90-006022
90-006044
Trematodes
90-000780
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90-000790
90-000792
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90-000797
90-000802
90-000803
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90-002436
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90-004213
90-004214
90-004215
90-004219
90-004221

...CONTINUED...
Parasites/Diseases
Trematodes
90-004222
90-004224
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90-004230
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Triaenophorus crassus
90-002453
Triaenophorus nodulosus
90-002453
Trichlorfon
90-006044
Trichodina domerguei
90-002367
Trichodina luba
90-005956
Trichodina uretra
90-004142
Trimethoprim
90-004111
Trimusculotrema micracantha
90-004229
Trimusculotrema waranaki
90-004229
Trypanoplasma borreli
90-004161
Trypanosoma acerinae
90-000765
Trypanosoma carassi
90-000765
Trypanosoma granulosum
90-004145
Trypanosoma guairaensis
90-005960
Trypanosoma mackerrasi
90-002409
Trypanosoma percae
90-000765
Trypanosoma regani
90-002421
Trypanosoma taeniurae
90-002409

...CONTINUED...
Parasites/Diseases
Tumors
90-000788
90-001816
90-002449
90-003402
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90-006036
90-006041
Ulcer Disease
90-002394
90-004106
90-004126
90-004140
Ulcerative Dermal Necrosis
90-004217
Ultraviolet Light
90-005095
Vaccination
90-000722
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90-000730
90-000741
90-000747
90-002383
90-002389
90-002390
90-002391
90-002397
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90-004967
90-005908
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90-005929
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90-005957
90-005985
Vector Control
90-005988
90-006299
90-006300
90-006787
Vibrio
90-002366
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Vibrio alginolyticus
90-004348
Vibrio anguillarum
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90-004110
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90-005942
90-005947

...CONTINUED...
Parasites/Diseases
Vibrio anguillarum
90-005949
Vibrio ordalii
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90-005925
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Vibrio salmonicida
90-002383
90-002391
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90-005921
Vibrio vulnificus
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90-004119
Vibriosis
90-004967
90-005929
Viral Diseases
90-000741
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90-005986
90-005987

...CONTINUED...
Parasites/Diseases
Viral Diseases
90-005988
90-005989
Viral Erythrocytic Necrosis
90-004178
Viral Hemorrhagic Septicemia
90-004180
Whirling Disease
90-000761
90-002416
90-005964
X-cells
90-002439
Yellowtail Ascites Virus
90-000773
Yersinia ruckeri
90-000741
90-004102
90-004131
90-005925
Physiology
Acidosis
90-000290
90-000327
90-005260
90-005261
Actomyosins
90-000284
90-003499
Adenosine
90-003272
90-003361
Adrenaline
90-003436
90-005207
Adrenergic System
90-000327
90-001805
90-001864
90-002021
90-003244
90-003531
90-005357
Aestivation
90-002001
90-003446
90-005565
Age/Growth
90-000048
90-000051
90-000057
90-000060
90-000108
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90-000217
90-000233
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90-001781

...CONTINUED...
Physiology
Age/Growth
90-001787
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90-004321
90-004906
90-004970
90-005201
90-005268
90-005294
90-005362
90-005373
90-005404
90-006104
Air Breathing
90-000359
90-005230
Alarm Substances
90-000293
Aldehyde Dehydrogenase
90-001927
Aluminum
90-005346
Amino Acids
90-000082
90-000126
90-000234
90-000244
90-000269
90-000314
90-000316
90-000343
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...CONTINUED...
Physiology
Amino Acids
90-005762
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Ammonia
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Androgen
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90-003479
Anesthetics
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Angiotensin
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90-003312
90-003515
Anoxia
90-001927
90-001928
Antibiotics
90-003606
Antibodies
90-000227
90-000318
90-000339
90-001795
90-003284
90-005174
90-005283
90-005318
90-005946
Antifreeze Production
90-000362
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90-005198
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Antigens
90-000230
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Appetite Stimulants
90-000102
90-000281
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Arginine
90-001727

...CONTINUED...
Physiology
Arsenic
90-004371
Ascorbic Acid
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ATP
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Atresia
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Auditory Sense
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Bacterial Flora
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Bile
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90-006230
Biochemical Composition
90-000071
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...CONTINUED...
Physiology
Biochemical Composition
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Bioenergetics
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Bioluminescence
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90-005315
90-005357
90-005358
Biosorption
90-004384
Biotransformation
90-003453
Blood Pressure
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90-005252
Bombesin
90-000406
90-003530
90-005378
90-005391
Brain
90-000113

...CONTINUED...
Physiology
Brain
90-000226
90-000278
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90-000406
90-000407
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Buoyancy Control
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Cadmium
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90-006189
90-006199
Calcitonin
90-001985
90-003373
Calcium
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90-000334
90-000349
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90-001985
90-003356

...CONTINUED...
Physiology
Calcium
90-003482
90-003490
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90-003566
90-004961
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90-005068
90-005186
90-005281
Carbohydrate Metabolism
90-000097
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90-003372
90-003377
90-003412
90-003495
90-003525
90-004366
Carbohydrates
90-001852
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Carbon
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90-000356
Carbon Dioxide
90-000423
90-003441
90-003514
Cardiovascular System
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90-001841
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90-001893
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90-005387
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90-005570
Carotenoids
90-000284
90-001997
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90-003280
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90-003475
90-003476
90-005285
Catecholamines
90-000421
90-001864
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90-002575

...CONTINUED...
Physiology
Catecholamines
90-003513
90-003544
90-005265
90-005279
90-005334
90-005343
90-005347
90-005414
Cell Culture
90-000300
90-002400
90-003231
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90-003402
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Chemoreception
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90-005514
Chloride Cells
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90-003454
90-005175
90-005186
90-005420
Chlorine
90-000400
Cholesterol
90-003382
90-003556
Chromaffin Cells
90-005265
Circadian Rhythms
90-000255
90-000402
Cobalt
90-003495
90-005011
Collagen
90-000324
90-000373
90-001882
90-003486
90-003684
Coloration
90-000233
90-003214
90-003225

...CONTINUED...
Physiology
Coloration
90-003544
90-003701
90-005311
Computer Applications
90-003317
90-004361
Condition Factors
90-000262
90-001836
90-001900
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90-001912
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90-005277
90-005284
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Copper
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Corpuscle of Stannius
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Corticosteroids
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Cortisol
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90-002022
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90-003349

...CONTINUED...
Physiology
Cortisol
90-003430
90-003454
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90-003477
90-003515
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Cytochalasin
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Cytochrome
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90-003463
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90-003564
90-004311
Cytochrome P450
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Cytology
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Physiology
Cytotoxicity
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Decomposition
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Diets
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Digestive Rate
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Digestive System
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DNA
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Early Development
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...CONTINUED...
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Early Development
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Egg Composition
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Egg Quality
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Egg Survival
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Eggs
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Eggs
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Electric Organs
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Electrophoresis
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Electrophysiology
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Physiology
Electrophysiology
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Electroreception
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Electroshock
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Electrotaxis
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Embryology
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Endocrinology
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Epidermis
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Evolution
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Excretory System
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Exercise
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Physiology
Exercise
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Extracellular Fluid Volume
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Eyes
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Fat Column
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Fatty Acids
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Fatty Acids
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Fertilization
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Fin Rays
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Food Conversion Efficiency
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Foods/Feeding
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Physiology
Foods/Feeding
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Gall Bladder
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Gas Supersaturation
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Gills
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Glucose
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Physiology
Glucose
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Gonosomatic Index
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Growth Hormone
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Growth Hormone
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Growth Stimulants
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Gynogenesis
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Hatching
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Healing
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Heavy Metals
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Hematology
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Physiology
Hematology
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Hemoproteins
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Hermaphroditism
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Histology
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Hooking/Handling Stress
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Hormones
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Hormones
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...CONTINUED...
Physiology
Hormones
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Hypercalcemia
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Hypercapnia
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Hyperoxia
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Hypothalamic-Hypophysial System
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Hypoxia
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Ichthyotoxin
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Immune Response
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...CONTINUED...
Physiology
Immune Response
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Immunoglobulins
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Imprinting
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Induced Maturation
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...CONTINUED...
Physiology
Induced Maturation
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Induced Smoltification
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Inflammatory Response
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Injuries
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Insulin
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Integument
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Interferon
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Iodine
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Ion Transport
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...CONTINUED...
Physiology
Ion Transport
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Iron
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Isozymes
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Kidneys
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Lactate
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...CONTINUED...
Physiology
Lactate
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Lactate Dehydrogenase
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Lactic Acid
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Lateral Line System
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Lead
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Lectins
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Leucocyte Migration
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Light
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Lipid Composition
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Lipid Content
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...CONTINUED...
Physiology
Lipid Content
90-005277
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Lipid Metabolism
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Liver
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...CONTINUED...
Physiology
Liver
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Lunar Influences
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Lymphocytes
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Magnesium
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Masculinization
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Maturation
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...CONTINUED...
Physiology
Maturation
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Melanophores
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Melatonin
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Mercury
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Metabolic Rates
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Metabolism
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...CONTINUED...
Physiology
Metabolism
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Metallothionein
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Metamorphosis
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Mitochondria
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Mortality Factors
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Mucous Cells
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Mucus
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...CONTINUED...
Physiology
Muscle Proteins
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Musculature
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Physiology
Musculature
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Nervous System
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Nitrite
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Nitrogen
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...CONTINUED...
Physiology
Nitrogen
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Nitrogen Metabolism
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Nutrition
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...CONTINUED...
Physiology
Nutrition
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Olfaction
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Oogenesis
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Opiates
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Osmoregulation
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...CONTINUED...
Physiology
Osmoregulation
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Osteology
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Otoliths
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Oxygen
90-000225

...CONTINUED...
Physiology
Oxygen
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Pancreas
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Pancreatic Islets
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Parental Transfer
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90-006205
Parr-Smolt Transformation
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90-001773
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...CONTINUED...
Physiology
Parr-Smolt Transformation
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Pars Distalis
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Parthenogenesis
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Peptides
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pH
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...CONTINUED...
Physiology
pH
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pH Regulation
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Phagocytosis
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Pharmacology
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Pheromones
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90-003562
Phosphate
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90-003581

...CONTINUED...
Physiology
Phosphate
90-005229
Phosphorus
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Photoperiodism
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Photoreception
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Phytate
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Pigments
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90-005411

...CONTINUED...
Physiology
Pigments
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Pineal Body
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Pituitary Gland
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Pollution Tolerance
90-001908
Potassium
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90-005281
90-005302
90-005421
Pressure Effects
90-000354

...CONTINUED...
Physiology
Pressure Effects
90-000377
90-001840
90-001981
90-003383
Progesterone
90-001945
Prostaglandins
90-001843
90-001862
Protein Metabolism
90-000087
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Protein Synthesis
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Proteins
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90-005178
90-005201
90-005240
90-005274
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90-005407
90-005641
Reconditioning
90-000364
90-000365
Rectal Gland
90-003272

...CONTINUED...
Physiology
Rectal Gland
90-003308
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90-006241
Regeneration
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90-005257
90-005360
Reproduction
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90-000218
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90-000238
90-000239
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90-001897
90-001908
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90-001970
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90-001979

...CONTINUED...
Physiology
Reproduction
90-002011
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90-005300
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90-005542
Reproductive Cycle
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90-000251
90-000345
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90-000365
90-000414
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90-001960
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90-001967
90-002019
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90-002168
90-002211
90-002215
90-003280
90-003283
90-003286
90-003295
90-003325
90-003352
90-003426
90-003428
90-003431
90-003459
90-003468

...CONTINUED...
Physiology
Reproductive Cycle
90-003479
90-003502
90-003521
90-003528
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90-003884
90-003891
90-005253
90-005254
90-005708
90-006191
Reproductive System
90-000202
90-000205
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90-000344
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90-000386
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90-001676
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90-005259
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90-005355
90-005382
90-005398
90-006220
Research Test Fish
90-005203
90-005220
90-005264
90-005354
90-006141
90-006239
Respiration
90-000359
90-000391
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90-001794
90-001808
90-001893
90-001902
90-002584
90-003391
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90-003478
90-003485
90-003492
90-003514
90-003570
90-003574
90-003592
90-003596
90-004349
90-005230

...CONTINUED...
Physiology
Respiration
90-005241
90-005260
90-005261
90-005294
90-005347
90-006087
Respiratory System
90-001848
90-001986
90-002492
90-002551
90-005387
90-006202
Reticulo-Endothelial System
90-001765
90-001849
90-005214
90-005283
90-005317
90-005320
90-006195
Rhythmicity
90-003451
90-005241
Riboflavin
90-003104
Rigor Mortis
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90-003416
90-003417
90-003486
90-005392
90-005393
RNA
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90-001925
90-003499
90-005322
Salinity
90-000217
90-000221
90-000261
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90-001878
90-001907
90-001909
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90-001931
90-001971
90-001974
90-001984
90-001986

...CONTINUED...
Physiology
Salinity
90-001996
90-002011
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90-002022
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90-002652
90-003033
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90-003478
90-003480
90-003538
90-005058
90-005205
90-005217
90-005237
90-005305
90-005364
90-005415
Sense Organs
90-003269
90-003734
Serotonin
90-000389
90-001799
90-001821
Sex Determination
90-001815
90-001846
90-001847
90-001922
90-002004
90-003336
90-003351
90-003429
90-003445
90-005375
Sex Reversal
90-000051
90-000302
90-001983
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90-004978
90-005196
90-005371
90-005375
90-005718
Sexual Dimorphism
90-003276
90-003582
90-005301
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Shock
90-003339
Sodium
90-000270
90-000329
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90-000400
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90-001792

...CONTINUED...
Physiology
Sodium
90-001805
90-003326
90-003497
90-003499
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90-005183
90-005302
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90-006108
Sodium Chloride
90-003593
Spawning
90-001994
Sperm
90-000032
90-000230
90-000238
90-000256
90-000273
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90-000318
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90-005297
90-005409
Spleen
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90-002018
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90-003588
90-005317
90-005320
90-005414
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Starvation
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90-000379
90-000382
90-001865
90-001912
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90-002097
90-003031
90-003039
90-003404
90-003467
90-003522
90-003548
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90-005026
90-005215

...CONTINUED...
Physiology
Starvation
90-005317
90-005348
90-005362
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90-005771
Steroids
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90-000352
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90-005337
90-005344
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90-005401
90-005408
90-005409
Sterols
90-003453
Stress
90-000242
90-000262
90-000294
90-000334
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90-001767

...CONTINUED...
Physiology
Stress
90-001778
90-001812
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90-006127
90-006169
Strontium
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Stunting
90-001850
90-001918
90-002015
90-002022
Survival
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90-000580
90-001522
90-001757
90-001781
90-001787
90-002026
90-002028
90-002557
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90-006185
90-006243
Swimbladder
90-000299
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90-003290
90-003441
90-003505
90-003514
Swimming Performance
90-000272

...CONTINUED...
Physiology
Swimming Performance
90-000505
90-001754
90-001790
90-001828
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90-001890
90-001893
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90-003378
90-003424
90-003547
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90-005219
90-005521
90-005536
Taste Reception
90-001762
90-003314
90-003419
90-005762
Taurine
90-001844
90-003285
90-003387
90-003388
90-003609
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Techniques/Biochemical Composition
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Techniques/Bioenergetics
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Techniques/Chemoreception
90-001791
Techniques/Chromatography
90-001899
90-003599
90-005323
90-005386
90-005424
Techniques/Condition Factors
90-000262
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90-001926
90-001950
90-003408
Techniques/Cytology
90-002079
90-003420
Techniques/Electrophoresis
90-005182
90-006767
Techniques/Endocrinology
90-001800
90-001801
90-005279
Techniques/Enzymes
90-002974
90-005182
Techniques/Fecundity
90-002803
90-003360

...CONTINUED...
Physiology
Techniques/Hematology
90-001858
90-001873
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Techniques/Hormones
90-001991
90-005243
90-005244
Techniques/Induced Maturation
90-003571
Techniques/Maturation
90-003315
Techniques/Metabolic Rates
90-001786
Techniques/Musculature
90-000265
90-001826
90-001914
90-005383
Techniques/Nervous System
90-000369
Techniques/Peptides
90-003580
Techniques/Photoreception
90-000369
Techniques/Proteins
90-000280
90-000335
90-001733
Techniques/Respiration
90-005418
Techniques/Sex Determination
90-003582
Techniques/Steroids
90-003318
90-003543
Techniques/Stress
90-000242
90-001767
90-001926
Techniques/Tissue Sampling
90-001826
Techniques/Tissue Staining
90-002468
Techniques/Vision
90-001756
90-003601
Techniques/Vitamins
90-003587
Teeth
90-005350
Temperature
90-000216
90-000224
90-000225
90-000236
90-000240
90-000248
90-000260
90-000263
90-000287
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90-000333
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90-001758

...CONTINUED...
Physiology
Temperature
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90-001887
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Testosterone
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Thermal Tolerance
90-000224
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90-003461
90-003589
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90-005381
90-005395
Thermoregulation
90-002012

...CONTINUED...
Physiology
Thermoregulation
90-005368
Thiourea
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90-001870
Thymus
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Thyroid Gland
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Thyroxine
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90-002024
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90-005270
90-005412
Tocopherols
90-005367
Toxins
90-000868
90-000886
90-000904
90-000923
90-004398
Trace Elements
90-000108

...CONTINUED...
Physiology
Twinning
90-001990
Urea
90-000269
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90-005284
90-005353
90-005366
90-006166
Urinary Bladder
90-005248
Vaccination
90-005908
Variation Studies
90-000202
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90-000311
90-000372
90-001837
90-001882
90-001980
90-002062
90-003338
90-003684
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90-005471
Vision
90-000167
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90-005339
90-005439
Vitamins
90-000120
90-000126
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90-001755
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90-003568
90-003587
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90-005043
90-005363

...CONTINUED...
Physiology
Vitellogenin
90-000341
90-001857
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90-006188
90-006198
Water Intake
90-000299
Weight Loss
90-002097
90-003043
Xenobiotics
90-001851
90-002493
90-002611
90-002624
90-003276
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Zinc
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90-000241
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90-001851
90-001924
90-004403
90-005045
90-005389
Pollution
Acid Mine Water
90-000809
90-000812
90-004263
Acid Precipitation
90-001155
90-001460
90-002559
90-004237
Acidification
90-000004
90-000807
90-000824

...CONTINUED...
Pollution
Acidification
90-000825
90-000826
90-000830
90-000833
90-000834
90-000837
90-000843
90-000852
90-000856
90-000857
90-000863
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90-001126
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90-001460
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90-002467
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90-002519
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90-004244
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90-004292
90-004577
90-004625
90-004639
90-004712
90-006055
90-006057
90-006062
90-006084
90-006089
90-006094
Agricultural Drainage
90-000810
90-000815
90-001234
90-002463
90-002483
90-002517
90-002799
90-004281

...CONTINUED...
Pollution
Agricultural Drainage
90-004288
90-004294
90-004295
90-004297
90-004301
90-004685
90-006068
Agricultural Wastes
90-001527
Air Pollution
90-000824
90-002523
90-002544
90-002768
90-003187
90-004257
90-004268
90-004290
90-004292
90-004302
90-006085
Aliphatic Hydrocarbons
90-004242
90-004243
Aluminum
90-002518
90-004264
90-006057
Ammonia
90-001106
90-002481
Ammonium
90-002465
Aroclor
90-004240
Aromatic Hydrocarbons
90-002461
90-002499
90-002515
90-004242
90-004243
Arsenic
90-002505
Behavior
90-000844
90-002464
90-002493
90-002494
90-002697
90-003790
90-004552
90-004712
Benzo(a)pyrene
90-002499
Bioaccumulation
90-002259
90-002471
90-002497
90-002505
90-002518
90-002536
90-002539
90-002541
90-002542
90-002546
90-004250
90-004254
90-004277
90-004347

...CONTINUED...
Pollution
Bioaccumulation
90-006064
90-006081
Bioassay Techniques
90-002469
90-002470
90-002476
90-002508
90-002509
90-002510
90-002512
90-002516
90-002524
90-002525
90-002526
90-002527
90-002547
90-002621
Biocides
90-006087
Biodegradation
90-000899
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90-002540
90-002548
Biological Indicators
90-000002
90-000003
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90-000931
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90-002461
90-002470
90-002525
90-002555
90-002601
90-003011
90-004265
90-006053
90-006061
90-006069
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90-006321
Biological Monitoring
90-000811
90-000817
90-000827
90-000839
90-000840
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90-000876
90-000909
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90-002465
90-002470
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90-002492
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90-002497
90-002498
90-002499
90-002516
90-002527
90-002530
90-002531
90-002538

...CONTINUED...
Pollution
Biological Monitoring
90-002551
90-002584
90-002586
90-002606
90-002625
90-004240
90-004262
90-004266
90-004273
90-004281
90-004283
90-004285
90-004296
90-004297
90-004315
90-004373
90-006053
90-006054
90-006063
90-006073
90-006079
90-006089
90-006140
Biomagnification
90-002770
Biosorption
90-000241
90-000811
90-000827
90-000847
90-000858
90-002462
90-002474
90-002475
90-002491
90-002493
90-002499
90-002506
90-002515
90-002537
90-002544
90-002558
90-002560
90-002621
90-004235
90-004257
90-004262
90-004276
90-006058
Biotransformation
90-004239
90-004277
90-004347
90-006072
Biotransport
90-000583
90-002533
90-002865
90-004239
Cadmium
90-000241
90-000846
90-000858
90-002503
90-002537
90-004235
90-004236
90-004254
90-004283

...CONTINUED...
Pollution
Cadmium
90-006059
Carcinogens
90-000804
Cesium
90-002506
90-004293
90-006064
Chlorinated Hydrocarbons
90-000823
90-002479
90-002486
90-002515
90-002523
90-002544
90-002558
90-004261
90-006063
Chromium
90-000827
90-002475
Coal Ash Effluents
90-002484
90-002549
Coal Mining
90-002549
Copper
90-000241
90-000846
90-000849
90-002468
90-002503
90-003790
90-004250
90-004283
90-006059
Coral Reefs
90-000828
Creosote
90-004248
DDE
90-002513
DDT
90-002513
Dibenzofuran
90-006073
Dioxin
90-002471
90-002472
90-002539
90-002541
90-002542
90-006060
90-006073
90-006206
Dredge Spoils
90-002487
90-002522
90-006500
Dredging
90-002491
90-002511
90-002526
90-002528
90-004465
Drilling Fluids
90-006162
Economic Value
90-004232
90-004268

...CONTINUED...
Pollution
Economic Value
90-006676
Endosulfan
90-004281
Energy Development
90-004302
Eutrophication
90-002463
90-002498
90-002507
90-002552
90-002785
90-004233
90-004260
90-005114
Feed Lot Runoff
90-004297
Fertilizers
90-002498
Fish Hatchery Effluents
90-003010
90-003011
90-004895
Fish Kills
90-000867
Fish Processing Effluents
90-006077
90-006090
Flyash
90-002549
General
90-002493
90-002767
General/Australia
90-000807
General/Brazil
90-000843
General/China
90-000863
General/Marine
90-000813
90-002491
90-002495
90-002497
90-002514
90-002543
90-002547
90-002553
90-002813
90-002814
General/Nigeria
90-000830
General/North Sea
90-004251
General/Poland
90-001267
General/Switzerland
90-001294
General/Venezuela
90-000857
Heated Effluents
90-006078
Heavy Metals
90-000241
90-000806
90-000827
90-000828
90-000831
90-000839
90-000845

...CONTINUED...
Pollution
Heavy Metals
90-000847
90-000849
90-000858
90-000862
90-001106
90-002474
90-002491
90-002493
90-002516
90-002518
90-002533
90-002534
90-002537
90-002546
90-002554
90-002584
90-004235
90-004236
90-004250
90-004254
90-004256
90-004262
90-004265
90-004276
90-004279
90-004283
90-004291
90-004292
90-004293
90-004304
90-004342
90-004394
90-006054
90-006059
90-006063
90-006070
90-006075
90-006080
90-006085
90-006088
90-006145
Hexachlorobenzene
90-002536
Highway Runoff
90-004238
90-004247
90-004249
90-004255
90-004258
90-004270
90-004279
90-004280
90-004291
90-004298
90-004299
90-004303
90-004304
90-004446
Hydrocarbons
90-004274
Incineration
90-002544
90-002705
Industrial Wastes
90-002496
90-002538
90-002606
90-004286
90-004300

...CONTINUED...
Pollution
Industrial Wastes
90-006066
90-006068
90-006073
Insecticides
90-004281
90-006074
Iron
90-000827
90-002503
Land Use
90-001026
90-002541
90-003182
90-004234
90-004241
90-004282
90-004288
90-004290
90-004295
90-004297
90-004666
90-004685
Landfills
90-002541
Laws/Law Enforcement
90-000810
90-000832
90-004286
90-006270
Lead
90-000827
90-000846
90-000849
90-002503
90-002537
90-004235
90-004236
90-004250
90-004276
90-004283
90-004293
Liming
90-002535
90-002549
90-002826
90-002832
90-004252
90-004267
90-004278
90-004639
Litter
90-000819
90-000944
90-004284
Logging Residue
90-004271
Magnesium
90-006156
Marinas
90-006086
Mercuric Chloride
90-004287
Mercury
90-000831
90-000839
90-000847
90-000858
90-002474
90-002504

...CONTINUED...
Pollution
Mercury
90-002511
90-002518
90-002554
90-004235
90-004236
90-004257
90-004276
90-004394
90-006058
90-006059
90-006075
90-006085
Metal Smelters
90-004342
Mine Effluents
90-004401
Mining
90-002491
90-002511
Modeling
90-000821
90-002520
90-002768
90-002769
90-002770
90-002797
90-002799
90-002813
90-002814
90-006443
90-006470
90-006499
90-006500
Mutagens
90-004266
Naphthoflavone
90-004240
Nitrate
90-002465
Nitric Acid
90-006062
Nitrite
90-002465
Nitrogen
90-002699
90-002707
90-004288
90-005114
Non-Point Sources
90-000846
90-000855
90-001116
90-001264
90-002700
90-004301
Ocean Dumping
90-000832
90-000850
90-002547
90-002920
90-004259
90-004284
90-006063
90-006082
Offshore Drilling
90-006052
Oil Pollution
90-000805
90-000808

...CONTINUED...
Pollution
Oil Pollution
90-000820
90-000821
90-000822
90-000841
90-000853
90-000854
90-000859
90-000860
90-000861
90-000914
90-002478
90-002482
90-002484
90-002488
90-002500
90-002502
90-002540
90-002543
90-002548
90-002692
90-002699
90-004232
90-004246
90-004248
90-004274
90-004845
90-006052
90-006056
90-006063
90-006072
90-006162
90-006250
90-006443
90-006499
Organics
90-002473
90-002494
90-002503
Pentachlorophenol
90-000838
90-004248
Pesticides
90-000828
90-002479
90-002483
90-002486
90-002493
90-002513
90-002516
90-002769
90-004239
90-004261
90-004277
90-004294
90-004301
90-004347
pH
90-000842
90-000862
90-002494
90-002523
90-004622
Phenols
90-004315
90-004373
Phosphate
90-000152
Phosphorus
90-000855

...CONTINUED...
Pollution
Phosphorus
90-001163
90-003188
90-004253
90-004288
90-005114
Piscicides
90-000947
Plastics
90-004259
90-006398
Pollution Abatement
90-000824
90-000836
90-000847
90-000851
90-000861
90-000929
90-001234
90-001257
90-001264
90-001307
90-002465
90-002467
90-002498
90-002507
90-002519
90-002528
90-002545
90-002549
90-002552
90-002639
90-003188
90-004246
90-004255
90-004270
90-004298
90-004304
90-004705
90-006060
90-006067
90-006068
90-006072
90-006669
90-006676
Pollution Avoidance
90-002100
90-002464
90-002606
90-002626
90-004271
Pollution Detection
90-000820
90-000835
90-002468
90-004262
90-004845
90-006210
Pollution Tolerance
90-002662
90-006055
Polychlorinated Biphenyls
90-000818
90-002479
90-002513
90-002516
90-002530
90-002544
90-004261
90-006081

...CONTINUED...
Pollution
Polycyclic Aromatic Hydrocarbons
90-000804
90-002484
90-002523
90-004285
90-004292
Public Health Problems
90-001527
90-002462
90-002477
Pulp Mill Effluents
90-000838
90-000844
90-000848
90-001106
90-002464
90-002623
90-004296
Radiation
90-002490
90-002506
90-002517
90-002710
90-004094
90-006064
Remote Sensing
90-002478
Reservoir Release Effects
90-002100
Salinity
90-000289
Salt
90-004249
Sediment Bioassays
90-000804
90-000814
90-000815
90-000816
90-000818
90-000835
90-000849
90-000914
90-002467
90-002472
90-002473
90-002474
90-002475
90-002476
90-002486
90-002490
90-002499
90-002503
90-002509
90-002523
90-002526
90-002528
90-002533
90-002558
90-004272
90-004292
90-004293
90-004304
90-006058
90-006060
90-006073
90-006088
90-006140
90-006162
Sedimentation
90-001163

...CONTINUED...
Pollution
Sedimentation
90-001189
90-002485
90-002765
Selenium
90-000847
90-006145
Sewage Effluents
90-000815
90-000836
90-000850
90-000851
90-002498
90-002508
90-002526
90-002538
90-002552
90-003188
90-004234
90-004295
90-004300
90-004454
90-004705
90-006053
90-006067
90-006068
90-006076
90-006083
90-006086
90-006172
90-006512
Strontium
90-000811
90-006064
Sulfur
90-004245
Sulfuric Acid
90-006062
Surfactants
90-004279
Suspended Solids
90-002536
Techniques
90-000820
90-002464
90-004266
90-004279
Thermal Pollution
90-002100
90-002262
90-002532
90-002697
90-004096
90-006078
90-006339
90-006548
Toxicity Testing
90-002473
Trace Metals
90-000845
90-000846
90-002462
90-002503
90-002546
90-004256
Tributyltin
90-000838
Trichlorobenzene
90-002536
Trichloroethylene
90-002544

...CONTINUED...
Pollution
Trinitrobenzene
90-002551
Trophic Relationships
90-000808
90-000811
90-000814
90-000823
90-001267
90-001310
90-002463
90-002497
90-002505
90-002525
90-004250
90-004290
90-004639
90-006067
90-006074
90-006081
90-006085
90-006145
90-006512
90-006515
Turbidity
90-001684
90-004465
Uranium
90-002490
90-004401
Urban Runoff
90-002515
90-002799
90-004238
90-004242
90-004243
90-004247
90-004255
90-004258
90-004291
90-004300
90-004631
90-006053
90-006088
90-006092
Water Quality
90-000931
90-001264
90-002480
90-002486
90-002487
90-002507
90-002607
90-002653
90-004273
90-004286
90-004622
90-006069
90-006079
90-006288
90-006782
Zinc
90-000241
90-000320
90-000846
90-002503
90-004250
90-004283
2,4-D
90-004248
Statistical Methods
Abundance/Factors of
90-002766

...CONTINUED...
Statistical Methods
Age/Growth
90-001024
90-001038
90-001045
90-001062
90-001063
90-001066
90-001067
90-001076
90-001079
90-001089
90-002801
90-003985
90-003998
90-004559
90-004569
90-004736
90-004792
90-005820
90-006440
90-006497
Age/Length Composition
90-000672
90-001024
90-001032
90-001034
90-001038
90-001040
90-001042
90-001045
90-001055
90-001056
90-001062
90-001065
90-001067
90-001068
90-001070
90-001071
90-001074
90-001076
90-004734
90-006474
90-006497
Analysis of Variance
90-001391
Biomass
90-004575
90-004738
90-006463
Catch Curves
90-001034
90-001042
90-001074
Catch Per Unit Effort
90-001053
90-001066
90-001079
90-004567
90-004570
90-004578
Catch-Age Analysis
90-004751
Cohort Analysis
90-003850
90-004561
90-004565
90-004569
90-004805
Commercial Fishing
90-004562

...CONTINUED...
Statistical Methods
Computer Applications
90-001062
Condition Factors
90-001021
90-004599
Culture/Propagation
90-002811
Exploitation Rates
90-001050
Exploratory Fishing
90-006437
Fisherman/Angler Surveys
90-004580
90-006353
Foods/Feeding
90-001447
90-004574
Forecasting
90-001016
90-001073
90-001074
90-001388
90-006496
Gear Efficiency
90-006437
Gear Selectivity
90-001079
90-004539
General
90-002796
Harvest
90-001027
90-001073
90-004553
90-004562
90-004736
90-004745
Length Frequencies
90-001076
90-003850
90-003998
90-003999
90-004569
90-004576
90-006452
Length-Weight Relationships
90-000664
90-001022
90-001024
90-001032
90-001033
90-001034
90-001039
90-001040
90-001046
90-001055
90-001063
90-001067
90-001070
90-001075
90-001076
90-001079
90-001089
90-004576
90-004599
90-006476
Linear Regression
90-001027
90-001085
Management/Research--Rivers and Streams
90-003850

...CONTINUED...
Statistical Methods
Mark/Recapture
90-000701
90-000988
90-004534
90-004563
90-004598
90-006366
90-006451
90-006498
Marking/Tagging
90-004563
Maturation
90-002801
Modeling
90-001062
Mortality Rates
90-000701
90-001024
90-001041
90-001042
90-001066
90-001070
90-001079
90-001089
90-002766
90-004051
90-004561
90-004567
90-005866
90-006320
90-006498
Multivariate Analysis
90-002671
90-004243
90-004574
90-006574
Pollution
90-001084
90-002767
90-004243
90-004577
Population Studies
90-000988
90-001045
90-001175
90-002773
90-004534
90-004544
90-004570
90-004578
90-004589
90-004599
90-006432
90-006773
Proportional Stock Density
90-004599
Recruitment
90-001027
90-001062
90-004567
90-004598
90-006320
Recruitment Curves
90-001086
90-004550
90-004597
90-004736
Regression Analysis
90-002811
90-004570

...CONTINUED...
Statistical Methods
Regression Analysis
90-004577
90-004578
Risk Analysis
90-002572
Sampling
90-001039
90-001044
90-001075
90-001454
90-003850
90-004534
90-004544
90-004553
90-004584
90-004589
90-004590
90-006615
90-006773
Sex Ratios
90-001070
Stock Assessment
90-000664
90-001022
90-001033
90-001037
90-001038
90-001039
90-001046
90-001048
90-001056
90-001062
90-001063
90-001065
90-001075
90-001089
90-001091
90-004545
90-004550
90-004560
90-004561
90-004565
90-006481
90-006496
Survival
90-002801
Temperature
90-004647
Time Series Analysis
90-001066
90-001084
90-001086
Toxicology
90-004323
90-006475
Virtual Population Analysis
90-001041
90-001252
90-004565
von Bertalanffy Growth Function
90-006440
Water Quality
90-002767
Year Class Strength
90-002766
90-004545
Yield
90-004567
Stocking/Introductions
Aquatic Plant Control
90-002888

...CONTINUED...
Stocking/Introductions
Aquatic Plant Control
90-002995
90-004089
Dispersal
90-000576
90-000993
90-002026
90-002729
Economic Value
90-004504
Economics
90-006382
90-006387
Egg Stocking
90-003057
90-004857
Endangered/Threatened Species
90-004876
90-006388
Environmental Impacts
90-004510
Exotic Species
90-001477
90-004505
90-004510
90-004511
90-004517
90-004593
90-004618
90-004630
90-006290
90-006647
Exotic Species/Africa: Lake Malawi
90-003754
Exotic Species/Africa: Lake Victoria
90-000992
90-002730
90-004512
90-004603
90-004604
90-004605
90-004620
Exotic Species/Argentina
90-002193
Exotic Species/Arizona
90-006651
Exotic Species/Australia
90-004459
90-006580
Exotic Species/California
90-004508
Exotic Species/Canada
90-001437
Exotic Species/Canada: British Columbia
90-005606
Exotic Species/Chile
90-005547
Exotic Species/Czechoslovakia
90-002722
Exotic Species/Denmark
90-000995
Exotic Species/Europe
90-005836
Exotic Species/Great Lakes
90-002829
Exotic Species/Italy
90-004500

...CONTINUED...
Stocking/Introductions
Exotic Species/Japan
90-006381
90-006384
Exotic Species/Kenya
90-005703
Exotic Species/Lake Michigan
90-006532
Exotic Species/Mediterranean Region
90-005836
90-005848
Exotic Species/Missouri
90-006375
Exotic Species/New Zealand
90-002727
Exotic Species/Oklahoma
90-006377
Exotic Species/Poland
90-006527
Exotic Species/Rwanda
90-004502
Exotic Species/South Dakota
90-006638
Exotic Species/Spain
90-004513
Exotic Species/Texas
90-000697
Exotic Species/Uganda: Lake Kyoga
90-004512
Exotic Species/Yugoslavia
90-002335
Fingerling Stocking
90-002725
90-002729
90-003946
Forage Introductions
90-002841
90-006375
90-006377
90-006378
Fry Stocking
90-000990
90-003057
90-004506
90-004515
General
90-004516
Genetic Strains
90-000991
90-001320
90-002724
90-002726
90-002728
90-004505
90-004510
Genetics
90-000929
90-001019
90-003631
Hatchery Releases
90-001929
90-002026
90-002727
90-006379
90-006380
Hatchery/Wild Populations
90-000991
90-001019
90-002726

...CONTINUED...
Stocking/Introductions
Hatchery/Wild Populations
90-002728
90-002729
90-004501
90-004999
90-006385
90-006390
90-006391
Hybrid Fish
90-002726
Hybridization
90-004505
90-004510
Laws/Law Enforcement
90-004505
Modeling
90-006376
Predator Introductions
90-001162
90-004510
90-004513
90-004604
90-004605
90-004620
90-004624
90-004630
90-004938
90-005580
90-006286
90-006530
Put-and-Take
90-004504
Reintroductions
90-000459
90-000929
90-002728
90-004617
90-005593
Restoration of Anadromous Runs
90-000929
Size at Release
90-000993
90-002295
90-003026
90-004509
90-006379
90-006380
Stock Selection
90-002724
Supplemental Stocking
90-000971
90-001019
90-002726
90-004506
90-004507
90-004514
90-004515
90-004632
90-005008
90-005576
90-005867
90-006385
90-006386
90-006387
90-006388
90-006389
90-006391
Survival
90-000990
90-000993

...CONTINUED...
Stocking/Introductions
Survival
90-000994
90-001049
90-001493
90-001929
90-002026
90-002722
90-002729
90-003026
90-004503
90-004509
90-005606
90-006376
90-006379
90-006380
90-006382
90-006390
90-006391
90-006392
90-006652
Transplanted Species
90-004875
Transportation
90-001588
90-002725
Techniques
Abundance/Factors of
90-002328
90-002331
Acoustical Methods
90-000988
90-001452
90-002132
90-002978
90-002982
90-003505
90-004497
90-004650
90-004843
90-004846
90-004852
90-004855
90-004859
90-004861
90-004864
90-004867
90-004868
90-005652
90-006367
90-006418
90-006754
90-006755
90-006759
90-006762
90-006765
90-006768
90-006769
90-006771
90-006774
Aerial Surveys
90-002234
90-002478
90-004845
Age/Growth
90-000170
90-000660
90-000669
90-000670
90-000671
90-000673

...CONTINUED...
Techniques
Age/Growth
90-000674
90-001045
90-001443
90-002286
90-002289
90-002290
90-002294
90-002296
90-002297
90-002298
90-002717
90-003230
90-003980
90-003981
90-003985
90-003992
90-003995
90-003996
90-003998
90-004000
90-004002
90-004003
90-004004
90-004005
90-004007
90-004008
90-004009
90-005798
90-005799
90-005801
90-005808
90-005811
90-005812
90-005814
90-005815
90-005818
90-005820
90-005821
90-005824
90-005825
90-005826
Anesthetics
90-005278
Artificial Spawning Beds
90-004671
Computer Applications
90-004002
90-004856
Cryopreservation
90-001618
90-001620
90-003469
90-003640
90-006756
Data Bases
90-004848
Distribution/Seasonal
90-002984
Echo Sounder
90-001435
90-002891
90-002977
90-002982
90-004611
90-004847
90-004852
90-006704
90-006757
90-006761

...CONTINUED...
Techniques
Echo Sounder
90-006762
Egg Collection
90-001252
90-001438
90-001457
90-002199
90-002328
90-002980
90-004857
90-004956
90-005698
Egg Identification
90-004069
90-006767
Egg Preservation
90-004069
Electrical Anesthesia
90-001446
90-001760
90-005179
Electrofishing
90-001438
90-001444
90-001445
90-001454
90-003737
90-004849
90-004858
90-004860
Fish Aggregation Devices
90-004855
Fish Collections
90-000683
Fish Counters
90-002977
90-006427
Fish Preservation
90-004850
90-004853
90-006772
Fisherman/Angler Surveys
90-004580
Foods/Feeding
90-000629
90-000634
90-001447
90-003628
90-005752
90-005760
Habitat Evaluation
90-002875
Harvest
90-001073
Laboratory Ecosystems
90-003160
90-004287
90-004552
Larval Identification
90-003096
90-003232
90-004069
90-004071
90-004075
90-004081
90-004848
90-005891
90-005892
Laws/Law Enforcement
90-004854

...CONTINUED...
Techniques
Laws/Law Enforcement
90-006758
Mapping Techniques
90-001018
90-002903
90-002913
90-002978
90-004551
90-006764
Marking/Tagging/Anchor Tags
90-002721
Marking/Tagging/Biological
90-001456
90-005754
Marking/Tagging/Biotelemetry
90-000521
90-003742
Marking/Tagging/Dyes
90-000502
90-002718
90-002985
Marking/Tagging/Eggs
90-004499
Marking/Tagging/Fluorescent Pigments
90-000586
90-002719
Marking/Tagging/General
90-000701
90-000988
90-001401
90-001455
90-002723
90-002976
90-004563
90-006711
Marking/Tagging/Internal Tags
90-002716
90-002721
90-006368
90-006374
Marking/Tagging/Iridium
90-004495
Marking/Tagging/Microtags
90-000989
Marking/Tagging/Parasitic Tagging
90-002906
90-002981
90-003824
90-004496
90-005942
Marking/Tagging/Radionuclides
90-000629
90-002717
Marking/Tagging/Scales
90-004495
90-006369
Marking/Tagging/Scarring
90-002718
90-006363
90-006372
Marking/Tagging/Sonar
90-004497
Marking/Tagging/Sonic
90-005531
90-005738
90-005740
90-006364
90-006367

...CONTINUED...
Techniques
Marking/Tagging/Spaghetti Tags
90-002721
Marking/Tagging/Strontium
90-001443
90-004498
90-006369
Marking/Tagging/Tag Retention
90-006366
Marking/Tagging/Tagging Lesions
90-004494
90-006370
90-006371
Marking/Tagging/Telemetry
90-000512
90-000613
90-002232
90-002234
90-002704
90-002716
90-002756
90-003729
90-003780
90-004497
90-004672
90-005528
90-006364
90-006367
90-006368
90-006374
Marking/Tagging/Tetracycline
90-003980
90-004493
90-004499
Marking/Tagging/Wire Tags
90-001455
90-006365
90-006371
90-006373
Misc. Equipment/Cages
90-000874
90-001449
Misc. Equipment/Intragravel Water Samplers
90-004648
Misc. Equipment/Sorting Tables
90-002732
Misc. Equipment/Submersibles
90-001453
90-002983
Misc. Equipment/Transect Techniques
90-001434
90-001451
90-002979
90-004844
90-006759
Mortality Rates
90-002759
90-006769
Museum Collections
90-002322
Otolith Preparation
90-004004
90-005801
Otoliths
90-000660
90-000669
90-000670
90-000674
90-001443

...CONTINUED...
Techniques
Otoliths
90-002289
90-002294
90-002296
90-002298
90-002717
90-003230
90-003980
90-003985
90-003992
90-003995
90-003996
90-003998
90-004000
90-004002
90-004003
90-004008
90-004498
90-004856
90-005648
90-005798
90-005799
90-005801
90-005811
90-005812
90-005814
90-005815
90-005818
90-005820
90-005825
90-005826
Photography
90-004844
Population Studies
90-001252
90-001450
90-004570
90-004843
90-004846
90-004858
90-006774
Remote Sensing
90-002478
90-002761
90-004845
90-004862
Samplers/Benthic
90-001440
Samplers/Larval Fish
90-004590
90-004865
90-006472
Samplers/Plankton
90-001351
90-001436
Samplers/Stomach
90-000634
90-001447
90-002985
Sampling
90-001175
90-001434
90-001439
90-001448
90-001451
90-001454
90-002949
90-003737
90-004849
90-004858

...CONTINUED...
Techniques
Sampling
90-006472
90-006766
90-006773
Satellite Imagery
90-002478
90-002984
Scales
90-003985
90-003992
90-004005
90-004007
90-004009
90-005131
90-005808
90-005821
Scuba
90-002199
90-002979
90-004849
90-006711
90-006766
Sex Determination
90-001847
90-002328
90-002975
90-003582
90-003768
Spawning Grounds Evaluations
90-002701
90-002761
90-002978
Species Identification
90-000428
90-000455
90-000460
90-000718
90-001437
90-001441
90-003267
90-003628
90-004861
90-004863
90-005131
90-005141
90-005887
90-005892
Sperm Preservation
90-000032
90-001618
90-001620
90-001628
90-003469
90-006756
Spines
90-005824
Stock Assessment
90-000988
90-001175
90-001434
90-002306
90-002328
90-002331
90-002336
90-002734
90-002754
90-002906
90-002911
90-002941
90-002951

...CONTINUED...
Techniques
Stock Assessment
90-002953
90-002954
90-002974
90-005652
90-006759
Stock Identification
90-000693
90-001401
90-001448
90-001456
90-002981
90-004856
90-005141
90-006481
Stomach Fullness
90-002985
90-003952
Temperature
90-004647
90-004648
Transportation
90-003134
Ultrasound Imaging
90-002975
Visual Estimation Methods
90-001434
90-001453
90-004849
90-006711
90-006766
90-006770
Water Analysis
90-003190
Water Flow Determination
90-006753
90-006763
Weight Estimation
90-004851
X-rays
90-000096
90-000427
Toxicology
Acidification
90-000885
90-000888
90-000893
90-001825
90-002563
90-002585
90-002597
90-002624
90-002652
90-002662
90-003204
90-004001
90-004325
90-004405
90-005296
90-006106
90-006147
90-006148
90-006149
90-006169
90-006185
90-006198
90-006242
90-006243
Acrylamide
90-000502

...CONTINUED...
Toxicology
Aflatoxins
90-000883
90-002631
90-003301
90-006179
Alcohols
90-002589
90-002642
Aldicarb
90-006139
Aliphatic Hydrocarbons
90-002617
Alkyl Benzene Sulfonate
90-004366
Aluminum
90-000879
90-000881
90-000885
90-000905
90-002585
90-002624
90-002652
90-002662
90-003040
90-004341
90-004368
90-004381
90-004405
90-005346
90-006113
90-006147
90-006148
90-006149
90-006169
90-006185
90-006237
90-006238
90-006242
90-006243
Ammonia
90-000871
90-000897
90-000916
90-000926
90-002565
90-002577
90-002651
90-002661
90-004323
90-004385
90-004970
90-006104
Ammonium Chloride
90-004970
Anesthetics
90-000907
90-002590
Anilines
90-000881
90-002577
90-004398
Antibiotics
90-006133
Antifoulants
90-002635
90-006225
Aroclor
90-004240
90-006220
Aromatic Amines
90-004319

...CONTINUED...
Toxicology
Aromatic Amines
90-004321
Aromatic Hydrocarbons
90-002579
90-002617
90-002640
90-004365
90-004375
90-006157
90-006158
Arsenic
90-000889
90-000909
90-004371
90-004378
90-006171
90-006203
Aryl Hydrocarbon Hydroxylase
90-006233
Asbestos
90-006105
Atrazine
90-004316
Bactericides
90-002378
Bayer 73
90-002106
Behavior
90-000888
90-000903
90-000913
90-002493
90-002582
90-002584
90-002586
90-002609
90-002625
90-002626
90-002658
90-004318
90-004320
90-004356
90-004363
90-004367
90-004383
90-004393
90-004552
90-006087
90-006100
90-006116
90-006127
90-006150
90-006183
90-006196
Benzene
90-002579
90-004375
90-006175
Benzidine
90-002577
Benzo(a)pyrene
90-000892
90-002619
90-002648
90-004343
90-004352
90-004360
90-004387
90-006183
90-006220

...CONTINUED...
Toxicology
Benzocaine
90-003533
90-005338
Benzyltoluenes
90-004402
Bioaccumulation
90-002573
90-002608
90-002627
90-002632
90-002654
90-002656
90-003040
90-004326
90-004335
90-004337
90-004339
90-004342
90-004345
90-004346
90-004347
90-004355
90-004356
90-004359
90-004369
90-004376
90-004384
90-004390
90-004391
90-004394
90-006091
90-006101
90-006102
90-006103
90-006107
90-006110
90-006117
90-006135
90-006137
90-006153
90-006156
90-006157
90-006158
90-006159
90-006176
90-006181
90-006200
90-006205
90-006206
90-006209
90-006211
90-006215
90-006218
90-006219
90-006222
90-006223
90-006224
90-006227
90-006228
90-006230
90-006234
90-006235
90-006442
Bioassay Techniques
90-002469
90-002524
90-002586
90-002591
90-002600
90-002601

...CONTINUED...
Toxicology
Bioassay Techniques
90-002621
90-002629
90-006127
90-006165
Biodegradation
90-002618
Biological Indicators
90-004337
Biological Monitoring
90-002591
90-002601
90-002606
90-004407
90-006099
90-006145
90-006150
90-006174
90-006180
90-006203
90-006204
90-006245
Biomagnification
90-000808
90-000873
90-000896
90-006182
Biosorption
90-000882
90-002493
90-002581
90-002589
90-002604
90-002611
90-002618
90-002634
90-002643
90-002644
90-004327
90-004341
90-004370
90-004377
90-004382
90-004388
90-004399
90-004400
90-004554
90-006111
90-006125
90-006143
90-006177
90-006178
90-006233
90-006475
Biotransformation
90-000408
90-000923
90-002573
90-002613
90-002619
90-002632
90-002636
90-004346
90-004347
90-004362
90-004387
90-006211
Boron
90-000889
90-004330

...CONTINUED...
Toxicology
Boron
90-004340
90-006143
Butylbenzene
90-002613
Cadmium
90-000870
90-000880
90-000900
90-000906
90-002577
90-002583
90-002584
90-002592
90-002593
90-002598
90-002614
90-002627
90-002634
90-002639
90-002647
90-003296
90-003313
90-003363
90-004314
90-004322
90-004329
90-004331
90-004332
90-004333
90-004359
90-004400
90-004403
90-004554
90-005644
90-006108
90-006126
90-006159
90-006167
90-006177
90-006178
90-006188
90-006189
90-006199
90-006203
90-006220
Cadmium Chloride
90-000871
Calcium
90-002624
90-002637
90-002649
90-006147
90-006148
90-006149
90-006169
90-006242
90-006243
Camphechlor
90-006160
Carbamates
90-002575
90-004346
90-006136
90-006139
Carbaryl
90-002620
Carbofuran
90-006194
Carbon Tetrachloride
90-004354

...CONTINUED...
Toxicology
Carbophos
90-002595
Carcinogens
90-000876
90-002631
90-004343
90-004356
90-004372
90-004389
90-004392
90-006154
90-006165
90-006179
90-006239
Cesium
90-006120
90-006176
Chlordane
90-006130
Chlorinated Benzenes
90-004384
90-004388
90-004398
Chlorinated Dibenzo-p-Dioxins
90-000878
90-004404
Chlorinated Hydrocarbons
90-000873
90-000917
90-002604
90-002646
90-004346
90-004369
90-004381
90-006116
90-006204
90-006273
Chlorine
90-002653
90-004323
90-006111
Chloroguaiacols
90-006197
Chlorophenols
90-002577
90-004374
90-004388
90-006174
90-006180
90-006197
Chlorophos
90-000872
90-000890
90-000904
Chloropyrifos
90-004320
Chlorpyrifos
90-000874
90-006123
90-006216
Chromium
90-002570
90-002645
90-004350
Ciguatera
90-000921
90-006119
90-006152
90-006740
CNP
90-006224

...CONTINUED...
Toxicology
Cobalt
90-006103
Complexing Agents
90-002575
Computer Applications
90-004361
Copper
90-000408
90-000912
90-000913
90-000924
90-002468
90-002577
90-002581
90-004322
90-004329
90-004390
90-006099
90-006117
90-006150
90-006170
90-006202
90-006203
90-006213
90-006475
Copper Sulfate
90-002567
90-004379
90-006129
Cyclohexane
90-004375
Cypermethrin
90-002615
Cytochrome P450
90-002598
90-004354
90-006162
90-006232
DDD
90-000884
DDE
90-000884
DDT
90-000884
90-002644
90-004345
90-006097
90-006192
Deltamethrin
90-002656
Detergents
90-000915
90-002582
Detoxification
90-000899
90-002598
90-002639
90-002649
90-004285
90-004334
90-004399
90-006134
Diammonium Phosphate
90-004396
Diazinon
90-006097
90-006132
90-006224
90-006227
Dibenzofuran
90-000878

...CONTINUED...
Toxicology
Dibenzofuran
90-004404
90-006107
90-006109
90-006110
90-006135
90-006156
90-006157
90-006158
90-006181
90-006193
90-006229
90-006273
Dichlorvos
90-002599
Dieldrin
90-004345
Diflubenzuron
90-000894
Dimethoate
90-006097
Dimethyl Sulfoxide
90-006165
Dioxin
90-000878
90-002632
90-002657
90-004404
90-006102
90-006107
90-006109
90-006110
90-006135
90-006156
90-006157
90-006158
90-006181
90-006193
90-006206
90-006209
90-006210
90-006211
90-006221
90-006228
90-006229
90-006240
90-006273
Drugs
90-000763
90-003423
Dyes
90-004383
90-006115
Endosulfan
90-000928
90-002564
90-002620
90-002646
90-006139
90-006192
90-006194
Esters
90-002573
90-004370
Ether
90-006224
90-006226
Fenitrothion
90-002616
90-004367

...CONTINUED...
Toxicology
Fenitrothion
90-006168
90-006227
Fenoxycarb
90-000894
Fenthion
90-000919
90-006121
Fenvalerate
90-002615
90-002638
90-004382
Fertilizers
90-004396
90-004397
Fluoride
90-006238
Flyash
90-006211
Formalin
90-004379
Fumagillin DCH
90-005974
General
90-000725
90-000868
90-002493
90-002574
90-002602
90-002607
90-004231
90-006122
Halogenated Hydrocarbons
90-004334
Hardness
90-000882
90-001825
Heavy Metals
90-000367
90-000408
90-000869
90-000870
90-000880
90-000881
90-000882
90-000885
90-000896
90-000900
90-000901
90-000902
90-000903
90-000906
90-000909
90-000912
90-000913
90-000920
90-000924
90-002493
90-002568
90-002569
90-002570
90-002571
90-002577
90-002581
90-002583
90-002593
90-002596
90-002598
90-002604
90-002612

...CONTINUED...
Toxicology
Heavy Metals
90-002627
90-002634
90-002639
90-002645
90-002647
90-002649
90-002654
90-002658
90-003406
90-003464
90-003578
90-004311
90-004314
90-004322
90-004326
90-004329
90-004331
90-004332
90-004333
90-004335
90-004337
90-004339
90-004341
90-004342
90-004353
90-004359
90-004371
90-004376
90-004378
90-004386
90-004390
90-004394
90-004400
90-004403
90-004554
90-005394
90-005644
90-006099
90-006100
90-006103
90-006108
90-006114
90-006117
90-006118
90-006125
90-006126
90-006137
90-006145
90-006150
90-006155
90-006159
90-006167
90-006170
90-006171
90-006173
90-006177
90-006178
90-006188
90-006189
90-006191
90-006199
90-006200
90-006201
90-006202
90-006203
90-006205
90-006208
90-006212

...CONTINUED...
Toxicology
Heavy Metals
90-006213
90-006214
90-006220
90-006235
90-006241
90-006475
Heptachlor
90-000917
Herbicides
90-004316
90-004370
90-004380
90-004395
90-006131
90-006222
90-006224
90-006226
90-006236
Hexachlorobenzene
90-002643
90-004355
90-006153
Hexachlorobutadiene
90-005360
Hexachlorocyclohexane
90-004318
Hexachlorocyclopentadiene
90-002636
Hydraulic Fluids
90-004402
Hydrazine
90-006190
Hydrocarbons
90-000911
90-004382
Hydrogen Peroxide
90-000890
Industrial Wastes
90-000871
90-000886
90-002576
90-002591
90-002594
90-002606
90-002609
90-004344
90-004385
Insecticides
90-000894
90-000908
90-000917
90-000919
90-000927
90-001604
90-002521
90-002564
90-002580
90-002584
90-002599
90-002615
90-002616
90-002620
90-002628
90-002638
90-002646
90-002650
90-002656
90-004312

...CONTINUED...
Toxicology
Insecticides
90-004320
90-004336
90-004367
90-006132
90-006144
90-006160
90-006196
90-006216
90-006227
Iron
90-000869
90-003464
Ketones
90-002642
Lampricides
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Larvicides
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Lead
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Lindane
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Liver
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Magnesium
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Malathion
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Manganese
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Mercuric Chloride
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Mercury
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Toxicology
Mercury
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Methidathion
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Methoprene
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Methyl Mercuric Chloride
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90-002587
Methyl Mercury
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Methylene Chloride
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Methylmercury
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90-004325
Mine Effluents
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Modeling
90-000876
90-002629
90-004313
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90-004554
90-006163
90-006442
90-006454
Molluscicides
90-006129
Molybdenum
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90-004340
90-006143
Monocrotophos
90-006097
Mosquito Control
90-000894
90-002521
90-002628
MS-222
90-000907
Mutagens
90-002648
90-004351
90-004364
90-004389
Mycotoxins
90-004357
Naphthalene
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Naphthenic Hydrocarbons
90-000887
Naphthoflavone
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90-004380
Nickel
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90-003363
90-004331

...CONTINUED...
Toxicology
Nickel
90-004350
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Nitrite
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90-002660
Nitrogen
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Oil Dispersants
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Oil Pollution
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90-000911
90-002582
90-002613
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90-004324
90-004338
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90-006096
90-006233
Organophosphates
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Organotins
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90-002659
Oxidizers
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Oxytetracycline
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Paints
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Paraquat
90-002567
90-004395
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Parathion
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Pentachlorophenol
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Permethrin
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Pesticides
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90-002493
90-002566
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...CONTINUED...
Toxicology
Pesticides
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pH
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90-005346
90-006113
90-006218
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Phenobarbital
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Phenols
90-000871
90-004315
90-004361
90-004373
90-006175
Phenoxyacetic Acid
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Phenoxyethanol
90-000907
Phosalone
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Phosphamidon
90-004336
Phthalate Esters
90-004328
90-004377
Piscicides
90-006128
90-006129
Plasticizers
90-004328
90-006219
Pollution Tolerance
90-002521
90-006170
90-006207
Polychlorinated Biphenyls
90-000876
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Toxicology
Polychlorinated Biphenyls
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Polycyclic Aromatic Hydrocarbons
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Potassium Permanganate
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Public Health Problems
90-004325
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90-006110
90-006119
90-006135
90-006181
Pulp Mill Effluents
90-002622
90-002623
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90-004374
90-006112
90-006146
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90-006164
90-006180
90-006197
90-006206
90-006208
Pyrethroids
90-001604
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Quinalphos
90-004312
Quinoline
90-004327
Radiation
90-000875
90-006176
Red Tides
90-002610
90-004305
90-004349
Resin Acids
90-006180
Rotenone
90-002655
90-004346
90-006128
Rubber
90-006231
Rubidium
90-006120
Salinity
90-000916
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Sediment Bioassays
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...CONTINUED...
Toxicology
Sediment Bioassays
90-004365
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Selenium
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90-006205
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Sewage Effluents
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90-004385
90-006172
90-006244
Silver
90-004335
90-006137
Surfactants
90-004311
Techniques
90-002468
90-004382
90-006151
90-006245
Temephos
90-000894
Temperature
90-000924
90-002619
90-006144
Terbufos
90-006144
Tetrodotoxin
90-003473
90-004348
Textile Effluents
90-000886
TFM
90-003170
Toluene
90-002640
90-004375
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Toxic Algae
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90-006234
Toxicity Testing
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...CONTINUED...
Toxicology
Toxicity Testing
90-002578
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Tributyltin
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90-004406
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Trichlorfon
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Trichloroguaiacol
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Triphenyltin Chloride
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Uranium
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Urban Runoff
90-006244
Urea
90-004396
90-006166
Water Quality
90-006180
90-006182
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Xenobiotics
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...CONTINUED...
Toxicology
Xenobiotics
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Xylenes
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Zinc
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90-006150
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2,4-D
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Utilization of Fishery Products
Carcass Traits
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Community Fishery Centers
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Economics
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90-006745
Fish as Food
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90-000848
90-001416

...CONTINUED...
Utilization of Fishery Products
Fish as Food
90-001417
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Fish Flavoring
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Fish Freshness Testing
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90-006749
Fish Preservation
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Fish Silage
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Food Technology
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90-004823
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90-006737
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General
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90-004840
90-006697

...CONTINUED...
Utilization of Fishery Products
General
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Marketing
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Nutrition
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Oil Production
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Public Health Problems
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Roe
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Smoking Fish
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Storage Effects
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90-001419
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90-006743

...CONTINUED...
Utilization of Fishery Products
Storage Effects
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Taste and Odor Problems
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Water Use/Conservation
Flood Control
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General
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Groundwater
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Land Use
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Modeling
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Water Allocations
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Water Law
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90-004869
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Watershed Management
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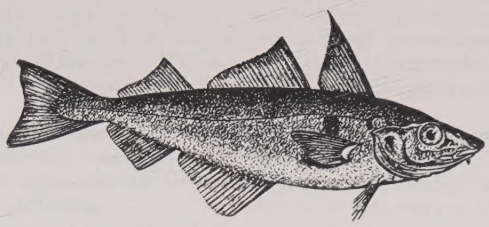

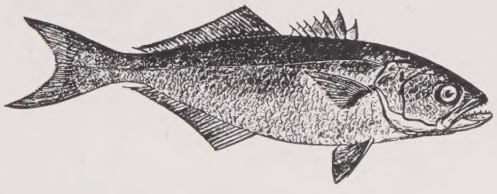

BOOK REVIEW

Gore, James W. and Geoffery E. Petts, editors. 1989. *Alternatives in Regulated River Management.* CRC Press, Inc., 2000 Corporate Blvd., N.W., Boca Raton, Florida 33431. 344 pp.

This book presents information across a broad range of topics related to the management of regulated rivers. Each of its 13 chapters is written by individuals with technical expertise in the chapter's subject area. The general topics covered are water quality, channel management, and community modeling.

The types of river regulation vary greatly from projects such as damming, diversions, channelization, to hydropower peaking and others. These activities start a ripple of predictable, but difficult to quantify, ecological consequences that affect aquatic systems. This book examines these consequences, discusses their causes and offers suggestion to avoid or reduce their impacts. For example, one chapter is devoted to water quality problems which result from damming. Another topic which is thoroughly covered is channel modifications which may be the result of direct activities such as channelization, clearing or straightening; or indirect ones such as those which result because of upstream changes such as damming. Methods to lessen environmental impacts through operational changes or structural modifications are recommended.

A large portion of this book focuses on techniques to model changes in the aquatic community caused by river management or a change in management. Current methods to predict changes in the macroinvertebrate and fish communities are discussed at length. The methods discussed for both fish and macroinvertebrates modeling lean heavily on Instream Flow Incremental Method (IFIM) techniques. Additionally, linear regression techniques which were developed to predict trout biomass are given a separate chapter.

I recommend this book to those responsible for river management projects, especially those involved with the identification of potential environmental impacts and their mitigation. It can serve as a starting place to build an overall picture of potential project impacts and ways to lessen them. This book cuts across several disciplines and looks at the problems not only through the eyes of aquatic biologists, but hydrologists, limnologists, geologists and others.—Martin D. Jakle, Bureau of Reclamation, Environmental Division, 23636 N. 7th Street, Phoenix, AZ 85068.

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